

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: ROOFSEAL MASTIC WET/DRY ROOF CEMENT (RSM)

EMERGENCY PHONE: 1-800-424-9300

May be used to comply with OSHA's Hazard Communications Standard (HSC) 29 CFR 1910.1200.  
Standard must be consulted for specific requirements. This product contains  
no substances subject to SARA TITLE III and 40 CFR.

HMIS SYMBOLS	
HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

1 - IDENTIFICATION

PRODUCT NAME: (RSM) ROOFSEAL MASTIC  
PREPARED DEPARTMENT OF HAZARDOUS COMMUNICATIONS  
PACKAGE TYPE: 1 gal  
DATE PREPARED: June 2010

II - HAZARDOUS INGREDIENTS

PRINCIPLE HAZARDOUS COMPONENT(S)	CAS NO	ACGIH TLV	OSHA PEL	% OF RANGE
Petroleum Asphalt	8052-42-4	5.0 mg/m <sup>3</sup> (fume)	5.0 mg/m <sup>3</sup> (fume)	< 50%
Stoddard Solvent	8052-43-3	100 ppm	100 ppm	< 25%
Cellulose Fiber	9004-34-6	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	< 5%
Inorganic Filler	1317-65-3	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	< 30%

III - PHYSICAL DATA

BOILING POINT (°F): Mineral Spirits 300-390°F  
SPECIFIC GRAVITY (H<sub>2</sub>O = 1): 1.07-1.11  
VAPOR PRESSURE (mm Hg): Approx. 6mm Hg 105°F  
MELTING POINT: N/A  
VAPOR DENSITY (Air = 1): 3.9  
EVAPORATION RATE (H<sub>2</sub>O = 1): Slower than Ether  
pH: na  
APPEARANCE AND ODOR: Dark gray with solvent odor.  
SOLUBILITY IN WATER: Insoluble

IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per OSHA FLAME EXTENSION TEST: Flash Point 105°F via TCC (Petroleum Solvent)  
SPECIAL FIRE FIGHTING PROCEDURES: None, however firefighters should always use self contained breathing apparatus as nitrogen oxides and carbon monoxides may be involved.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

V - REACTIVITY DATA

CHEMICAL STABILITY: UNSTABLE  
INCOMPATIBILITY: (Materials to avoid): Will not react violently with water. Avoid heat or open flame, strong oxidizers such as liquid chlorine, concentrated oxygen, sodium hypochlorite or calcium hypochlorite.  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide, ammonia, nitrogen oxides.  
POLYMERIZATION: MAY OCCUR  
CONDITIONS TO AVOID: WILL NOT OCCUR

VI - HEALTH HAZARD AREA

ROUTE(S) OF ENTRY: EYES Yes SKIN Yes INGESTION Yes INHALATION Yes  
EFFECTS OF OVER EXPOSURE: Breathing asphalt aerosol or asphalt smoke protracted periods of time has produced damage to the lungs of mice. Among the changes observed were: bronchitis, pneumonia, and abscess formation.  
INHALATION: Petroleum Solvent - excessive inhalation of vapors can cause irritation of nose and throat, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness and even asphyxiation.  
SKIN CONTACT/ABSORPTION: Prolonged or repeated contact can cause moderate irritation, defatting and dermatitis.  
INGESTION: Aspiration hazard

EYES: Can cause severe irritation, redness, tearing, and blurred vision  
CARCINOGENICITY: NTP? Not listed IARC MONOGRAPHY? N/A OSHA REGULATED? II for exposure limits

EMERGENCY AND FIRST AID PROCEDURES:

EYES AND SKIN: EYES - Flush with large amounts of water for at least 15 minutes. Get medical attention. SKIN - Remove contaminated clothing/shoes thoroughly, wash exposed area with soap and water. If irritation persists or redness develops and persists, get medical attention.

INHALATION: Move fresh air. If breathing difficult seek IMMEDIATE medical attention. Keep person warm and quiet  
INGESTION: DO NOT INDUCE VOMITING. Transport to hospital IMMEDIATE. Note to physician: Perform gastric lavage in accordance with procedures for ingestion of petroleum products.

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE CONTAINER IS PUNCTURED AND MATERIAL IS RELEASED:

Shut off and eliminate all ignition sources. Keep people away. Remove fire product. Add sand, earth, or other suitable absorbents to spill area. Minimize skin contact and breathing vapors. ventilate confined spaces. Open all windows and doors. Keep product out of sewers and water sources by diking or impounding. Advise authorities if product has entered or may enter sewers, water courses or extensive land areas. Assure conformity with applicable governmental regulations.

WASTE DISPOSAL METHOD: Dispose of in an environmentally safe manner in accordance with governmental regulations. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury or death. Do not attempt to clean residue since it is difficult to remove.

VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY: Air concentrations of fumes determine the level of protection needed. Use only NIOSH approved respiratory equipment within the limits of the protection factors for that equipment  
EYE: Safety glasses, splash goggles or face shield should be used. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.  
SKIN: Protective gloves recommended: Impervious gloves and PROTECTIVE GLOVES.  
clothing. That is impervious to petroleum solvents and asphalt components.

OTHER: Keep containers closed when not in use. DO NOT STORE NEAR HEAT, FLAME, SPARKS, OR STRONG OXIDANTS

VENTILATION REQUIREMENTS: General good ventilation is recommended. Use explosion-proof equipment. No smoking or open lights

IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed when not in use. Store with adequate ventilation.

SPECIAL PRECAUTIONARY STATEMENTS: Keep this and all chemicals out of reach of children.

NOTICE: We believe that the information contained on this material safety data sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily nor fully adequate in every circumstance. Also, the suggestions should not be confused with nor followed in violation of applicable laws, regulations, rules or insurance requirements. No warranty, expressed or implied, of merchantability fitness or otherwise is made.

X - REGULATORY INFORMATION AND REFERENCES

SARA Title III Reporting Requirements	
302	(Extremely Hazardous Substances): Reporting not required.
304/CERCLA	(Spills Notification): Not required.
311	Community Right-To-Know (RTK): Reporting not required.
312	(RTK Inventory Data): Not required.
313	(Emissions and Releases): Reporting not required.
DOT	NOT HAZARDOUS

References

PERMISSIBLE EXPOSURE REFERENCES:  
Registry of Toxic Effects of Chemical Substances.  
Title 29 Code of Federal Regulations.  
National Toxicology Program (NTP) Report on Carcinogens.  
International Agency for Research on Cancer (IARC) Monographs.  
Title 40 Code of Federal Regulations  
REGULATORY STANDARDS:  
DOT Title 49 Code of Federal Regulations 172.101  
SARA Title III  
Nuclear Regulatory Commission

# RUST REFORMER - AEROSOL ITEM: 5HE25 - Rust Converter Black Flat Finish 1

CLICK & FIND

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: B2424

This MSDS should be attached or kept with the respective product with which it is associated.

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MATERIAL SAFETY DATA SHEET - B2424  
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Product Name: Rust Converter Item: 5HE25 - Rust Converter Black Flat Finish 1

MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE: 1-847-367-7700

RUST-OLEUM CORP.  
WWW.RUSTOLEUM.COM

## SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION

PRODUCT NAME: RUST OLEUM HIGH PERFORMANCE RUST REFORMER AEROSOL

REVISION DATE: 09/11/2006

IDENTIFICATION NUMBER: 215634

PRODUCT USE/CLASS: AEROSOL

SUPPLIER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USA

MANUFACTURER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USA

PREPARER: REGULATORY DEPARTMENT

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT % LESS THAN
ACETONE	67-64-1	30.0
LIQUEFIED PETROLEUM GAS	68476-86-8	25.0
TOLUENE	108-88-3	10.0
MAGNESIUM SILICATE	14807-96-6	10.0
N-BUTYL ACETATE	123-86-4	5.0
STODDARD SOLVENTS	8052-41-3	5.0
	1330-20-7	5.0
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	5.0

CHEMICAL NAME	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
ACETONE	500 PPM	750 PPM	750 PPM	N.E.
LIQUEFIED PETROLEUM GAS	1000 PPM	N.E.	1000 PPM	N.E.
TOLUENE	50 PPM	150 PPM	200 PPM	300 PPM
MAGNESIUM SILICATE	10 MG/M3	N.E.	15 MG/M3	N.E.
N-BUTYL ACETATE	150 PPM	200 PPM	150 PPM	N.E.
STODDARD SOLVENTS	100 PPM	N.E.	500 PPM	N.E.
XYLENE	100 PPM	150 PPM	100 PPM	N.E.
ETHYLENE GLYCOL MONOBUTYL ETHER	20 PPM	N.E.	50 PPM	N.E.

## SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:  
CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. EXTREMELY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION.

EFFECTS OF OVEREXPOSURE - INHALATION:  
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.

EFFECTS OF OVEREXPOSURE - INGESTION:  
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:  
Prolonged or repeated exposure may cause central nervous system disorder (e.g., narcosis involving a loss of consciousness, weakness, fatigue, mental confusion, and blurred vision). Animal studies have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure,

OVEREXPOSURE TO TOLUENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER ABNORMALITIES, KIDNEY, LUNG AND SPLEEN DAMAGE. EFFECTS IN HUMANS HAVE INCLUDED LIVER AND CARDIAC ABNORMALITIES.

PRIMARY ROUTE(S) OF ENTRY:  
SKIN CONTACT, SKIN ABSORPTION, INHALATION, EYE CONTACT

## SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT:  
HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT:  
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

FIRST AID - INHALATION:  
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE IMMEDIATELY.

FIRST AID - INGESTION:  
ASPIRATION HAZARD:  
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL ATTENTION.

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT (SETAFLASH): -156 F

LOWER EXPLOSIVE LIMIT: 0.7 %  
UPPER EXPLOSIVE LIMIT: 36.0 %

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. FLASH POINT IS LESS THAN 20 DEG. F.

EXTREMELY FLAMMABLE LIQUID AND VAPOR!  
WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. KEEP CONTAINERS TIGHTLY CLOSED.

SPECIAL FIREFIGHTING PROCEDURES:  
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST.

## SECTION 7 - HANDLING AND STORAGE

HANDLING:  
USE ONLY IN A WELL-VENTILATED AREA. WASH HANDS BEFORE EATING. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING VAPOR OR MIST. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES.

STORAGE:  
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:  
USE EXPLOSION-PROOF VENTILATION EQUIPMENT. PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

RESPIRATORY PROTECTION:  
A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.

SKIN PROTECTION:  
USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN. NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION.

EYE PROTECTION:  
USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

OTHER PROTECTIVE EQUIPMENT:

REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

HYGIENIC PRACTICES:  
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE: -34 - 498 F

DENSITY: HEAVIER THAN AIR

SOLVENT LIKE

FLASH POINT: ND

APPEARANCE: LIQUID

EVAPORATION RATE: SLOWER THAN ETHER

SOLUBILITY IN H<sub>2</sub>O: SLIGHT

FREEZE POINT: ND

SPECIFIC GRAVITY:

VAPOR PRESSURE:

pH: NE

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

#### SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:  
AVOID TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

INCOMPATIBILITY:  
INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

HAZARDOUS DECOMPOSITION:  
WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

#### SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT LD50: ND

PRODUCT LC50: ND

CHEMICAL NAME	LD50	LC50
UNIDENTIFIED PETROLEUM GAS	N.D.	N.D.
TOLUENE	N.D.	N.D.
MAGNESIUM SILICATE	N.D.	TCLO: 11 MG/M3 INH.
N-BUTYL ACETATE	13100 MG/KG (ORAL, RAT)	2000 PPM (INH 4 HR, RAT)
STODDARD SOLVENTS	N.D.	N.D.
XYLENE	N.D.	N.D.
ETHYLENE GLYCOL MONOBUTYL ETHER	1519 MG/KG (ORAL, MOUSE)	700 PPM (INH 7 HR, RAT)

#### SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

#### SECTION 13 - DISPOSAL INFORMATION

DISPOSAL INFORMATION:  
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

#### SECTION 14 - TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: AEROSOL  
DOT TECHNICAL NAME:  
DOT HAZARD CLASS: 2.1  
DOT UN/NA NUMBER: UN1950

PACKING GROUP:  
HAZARD SUBCLASS:  
RESP. GUIDE PAGE: 126

#### SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:  
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:  
ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SECTION 313:  
LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
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TOLUENE	108-88-3
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XYLENE	1330-20-7
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ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2
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TOXIC SUBSTANCES CONTROL ACT:  
LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES: NONE KNOWN

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW:  
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

CHEMICAL NAME	CAS NUMBER
---------------	------------

ALKYD RESIN	MIXTURE
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PENNSYLVANIA RIGHT-TO-KNOW:  
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%.

CHEMICAL NAME	CAS NUMBER
---------------	------------

ALKYD RESIN	MIXTURE
-------------	---------

CALCIUM CARBONATE	1317-65-3
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CALIFORNIA PROPOSITION 65:  
THESE PRODUCTS CONTAIN NO KNOWN CHEMICALS KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING!  
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS:  
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

#### SECTION 16 - OTHER INFORMATION

HMIS RATINGS:  
HEALTH 2  
FLAMMABILITY 4  
REACTIVITY 0  
PERSONAL PROTECTION X

VOLATILE ORGANIC COMPOUNDS, G/L:

REASON FOR REVISION:

LEGEND:  
N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

6719

MSDS REC'D by Trane October 20, 2004

REVISED JANUARY 2004

## APEX ENGINEERING PRODUCTS CORPORATION

1241 Shoreline Dr.

Aurora, Illinois 60504

Phone: 800-451-6291 FAX: 630-820-8886

Emergency Telephone Number: 630-820-8888

CHM00544

CHM00545

CHM00546

CHM00547

CHM00548

## MATERIAL SAFETY DATA SHEET

## PRODUCT INFORMATION

TRADE NAMES OR SYNONYMS:

FORMULA:

CHEMICAL FAMILY:

RYDLYME, RID-LIME

PROPRIETARY, CONFIDENTIALITY REQUIRED

WATER SCALE CLEANER

## HAZARDOUS INGREDIENTS

MATERIAL OR COMPONENT  
HYDROGEN CHLORIDE, AQUEOUSTLV (p.p.m.)  
5PEL (p.p.m.)  
5APPROXIMATE %  
LESS THAN 10

NOTE: Laboratory tests indicate material to be **BIODEGRADABLE**. USDA approved for use in beverage, pharmaceutical, bottling, poultry, and other food processing plants. USFDA has no jurisdiction over the product, since it does not come in direct contact with food. Non-reportable under Sara Title 3: Section 311/312/313 Categorization. Not reportable under CERCLA.

## PHYSICAL DATA

BOILING POINT:

101° C.

SOLUBILITY IN WATER:

MISCIBLE

SPECIFIC GRAVITY, (WATER=1):

1.045

VAPOR PRESSURE:

30 TORR

VAPOR DENSITY, (AIR=1):

GREATER THAN 1

PERCENT VOLATILE BY VOLUME:

99.6

APPEARANCE:

DARK LIQUID

ODOR:

ROASTED ALMONDS

pH:

UNREADABLE, GENERALLY &lt;3

EVAPORATION RATE, (WATER=1):

SLOW

PHYSICAL STATE:

LIQUID

## FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

NO FLASH POINT, EXTINGUISHES FLAME

EXTINGUISHING MEDIA:

DOES NOT SUPPORT COMBUSTION

SPECIAL FIRE FIGHTING PROCEDURES:

NONE-WATER WILL CONTROL, OR CO2/DRY CHEMICALS

UNUSUAL FIRE &amp; EXPLSION HAZARDS:

NON-COMBUSTIBLE OR EXPLOSIVE. BREATHING APPARAUS RECOMMENDED

## HMIS

HEALTH:

0

FLAMMABILITY:

0

REACTIVITY:

0

PERSONAL PROTECTION:

B

(continued)

Permanent  
to file  
Heat Ex-changer Cleaner.



RUSTOLEUM

# Material Safety Data Sheet

24 Hour Assistance:  
1-847-367-7700  
Rust-Oleum Corp.  
www.rustoleum.com

## Section 1 - Chemical Product / Company Information

Product Name: Industrial Rust Reformer  
Identification Number: 3575104, 3575300, 3575402  
Revision Date: 08/21/2007  
Product Use/Class: Rust Converter/Special Purpose  
Supplier: Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, IL 60061  
USA  
Manufacturer: Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, IL 60061  
USA  
Preparer: Regulatory Department

## Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
TANNIC ACID	1401-55-4	5.0	N.E.	N.E.	N.E.	N.E.

## Section 3 - Hazards Identification

\*\*\* Emergency Overview \*\*\*: Use ventilation necessary to keep exposures below recommended exposure limits, if any.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: Low hazard for usual industrial handling or commercial handling by trained personnel. High gas, vapor, mist or dust concentrations may be harmful if inhaled.

Effects Of Overexposure - Ingestion: Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: No Information.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

## Section 4 - First Aid Measures

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

First Aid - Ingestion: Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting, but give one or two glasses of water to drink and get medical attention.

## **Section 5 - Fire Fighting Measures**

Flash Point: 212. F  
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.9 %  
UPPER EXPLOSIVE LIMIT : 22.7 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS TESTED TO BE GREATER THAN 200 DEGREES F.

Special Firefighting Procedures: Water may be used to cool closed containers to prevent buildup of steam.

## **Section 6 - Accidental Release Measures**

Steps To Be Taken If Material Is Released Or Spilled: Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

## **Section 7 - Handling And Storage**

Handling: Wash hands before eating. Wash thoroughly after handling. Avoid contact with eyes.

Storage: Keep from freezing. Keep container closed when not in use.

## **Section 8 - Exposure Controls / Personal Protection**

Engineering Controls: Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

Skin Protection: Nitrile or Neoprene gloves may afford adequate skin protection. Use gloves to prevent prolonged skin contact.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other protective equipment: Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking.

## **Section 9 - Physical And Chemical Properties**

Boiling Range:	212 - 503 F	Vapor Density:	Heavier than air
Odor:	Ammonia Like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Slower than Ether
Solubility in H2O:	Soluble		
Freeze Point:	ND	Specific Gravity:	1.3000
Vapor Pressure:	ND	PH:	NE
Physical State:	Liquid		

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

Conditions To Avoid: Avoid contact with strong acid and strong bases.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. By open flame, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

## Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

### Chemical Name

TANNIC ACID

### LD50

5g/kg rat

### LC50

## Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

## Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

## Section 14 - Transportation Information

DOT Proper Shipping Name:	Paint	Packing Group:	---
DOT Technical Name:	---	Hazard Subclass:	---
DOT Hazard Class:	Not Regulated	Resp. Guide Page:	---
DOT UN/NA Number:	---		

## Section 15 - Regulatory Information

### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

CHRONIC HEALTH HAZARD

### SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

None known

### Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

### U.S. State Regulations: As follows -

#### New Jersey Right-to-Know:

The following materials are non-hazardous, but are among the top five components in this product.

<u>Chemical Name</u>	<u>CAS Number</u>
Water	7732-18-5
Acrylic Vinylidene Chloride Copolymer	PROPRIETARY
Barium Sulfate	7727-43-7
Amorphous Fumed Silica	112945-52-5

#### Pennsylvania Right-to-Know:

The following non-hazardous ingredients are present in the product at greater than 3%.

<u>Chemical Name</u>	<u>CAS Number</u>
Water	7732-18-5
Acrylic Vinylidene Chloride Copolymer	PROPRIETARY
Barium Sulfate	7727-43-7

### California Proposition 65:

These products contain no known chemicals known by the State of California to cause cancer.

These products contain no known chemicals known by the State of California to cause birth defects or other reproductive harm.

### International Regulations: As follows -



**CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS:** D2B

**Section 16 - Other Information**

**HMIS Ratings:**

Health: 2

Flammability: 0

Reactivity: 0

Personal Protection: X

**VOLATILE ORGANIC COMPOUNDS, g/l:** <50

**REASON FOR REVISION:**

**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

RUSTOLEUM METALLIC GOLD SPRAY PAINT

# Material Safety Data Sheet

24 Hour Assistance:  
1-847-367-7700  
Rust-Oleum Corp.  
www.rustoleum.com

## Section 1 - Chemical Product / Company Information

Product Name: STRUST +SSPR 6PK METALC GOLD RUSH  
 Identification Number: 7270830  
 Product Use/Class: Metallic Topcoat/Aerosol  
 Supplier: Rust-Oleum Corporation  
 11 Hawthorn Parkway  
 Vernon Hills, IL 60061  
 USA  
 Manufacturer: Rust-Oleum Corporation  
 11 Hawthorn Parkway  
 Vernon Hills, IL 60061  
 USA  
 Preparer: Regulatory Department

## Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than		ACGIH TLV-TWA		OSHA PEL-TWA	
				STEL		CEILING	
Toluene	108-88-3	35.0	20 ppm	N.E.	200 ppm	300 ppm	N.E.
Liquefied Petroleum Gas	68476-86-8	35.0	N.E.	N.E.	N.E.	N.E.	N.E.
Acetone	67-64-1	20.0	500 ppm	750 ppm	1000 ppm	N.E.	N.E.
Propylene Glycol Monomethyl Ether Acetate	108-65-6	5.0	N.E.	N.E.	30 ppm	N.E.	N.E.
Xylene	1330-20-7	5.0	100 ppm	150 ppm	100 ppm	N.E.	N.E.
Mineral Spirits	64742-88-7	5.0	100 ppm	N.E.	100 ppm	N.E.	N.E.
bis(2-ethylhexyl)-1,4-benzenedicarboxylate	6422-86-2	5.0	N.E.	N.E.	N.E.	N.E.	N.E.
Ethylbenzene	100-41-4	1.0	100 ppm	125 ppm	100 ppm	N.E.	N.E.

## Section 3 - Hazards Identification

\*\*\* Emergency Overview \*\*\*: Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Harmful if swallowed. Extremely flammable liquid and vapor.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation. May be absorbed through the skin in harmful amounts.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports

have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

#### **Section 4 - First Aid Measures**

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

#### **Section 5 - Fire Fighting Measures**

Flash Point: -156 F (Setaflash)

Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Perforation of the pressurized container may cause bursting of the can. Isolate from heat, electrical equipment, sparks and open flame. Keep containers tightly closed. Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

#### **Section 6 - Accidental Release Measures**

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

#### **Section 7 - Handling And Storage**

Handling: Follow all MSDS/label precautions even after container is emptied because it may retain product residues. Use only in a well-ventilated area. Avoid breathing vapor or mist. Wash thoroughly after handling. Wash hands before eating.

Storage: Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

#### **Section 8 - Exposure Controls / Personal Protection**

**Engineering Controls:** Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Respiratory Protection:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

**Skin Protection:** Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

**Eye Protection:** Use safety eyewear designed to protect against splash of liquids.

**Other protective equipment:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

**Hygienic Practices:** Wash thoroughly with soap and water before eating, drinking or smoking.

## Section 9 - Physical And Chemical Properties

Vapor Density:	Heavier than Air	Odor:	Solvent Like
Appearance:	Aerosolized Mist	Evaporation Rate:	Faster than Ether
Solubility in H <sub>2</sub> O:	Slight	Freeze Point:	N.D.
Specific Gravity:	0.743	pH:	N.D.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

**Incompatibility:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Stability:** This product is stable under normal storage conditions.

## Section 11 - Toxicological Information

<b>Chemical Name</b>	<b>LD50</b>	<b>LC50</b>
Toluene	636 mg/kg (Rat, Oral)	>26700 ppm (Rat, Inhalation, 1Hr)
Liquefied Petroleum Gas	N.E.	N.E.
Acetone	5800 mg/kg (Rat)	50100 mg/m3 (Rat, 8Hr)



Propylene Glycol Monomethyl Ether Acetate	>10000 mg/kg (Rat, Oral) N.E.
Xylene	4300 mg/kg (Rat, Oral) 5000 ppm (Rat, Inhalation, 4Hr)
Mineral Spirits	>5000 mg/kg (Rat, Oral) >1400 ppm (Rat, Inhalation, 4Hr)
bis(2-ethylhexyl)-1,4-benzenedicarboxylate	>5000 mg/kg (Rat) N.E.
Ethylbenzene	3500 mg/kg (Rat, Oral) N.E.

## Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

## Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

## Section 14 - Transportation Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)
Proper Shipping Name:	Consumer Commodity	Aerosols	Aerosols
Hazard Class:	ORM-D	2.1	2.1
UN Number:	N.A.	UN1950	UN1950
Packing Group:	N.A.	N.A.	N.A.
Limited Quantity:	No	Yes	Yes

## Section 15 - Regulatory Information

### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

### SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS Number</u>
Toluene	108-88-3
Xylene	1330-20-7

### Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

**U.S. State Regulations: As follows -**

**New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

**Chemical Name**

Acrylic Resin

**CAS Number**

PROPRIETARY

**Pennsylvania Right-to-Know:**

The following non-hazardous ingredients are present in the product at greater than 3%.

**Chemical Name**

Acrylic Resin

**CAS Number**

PROPRIETARY

**International Regulations: As follows -****CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS:** AB5 D2A D2B

<b>Section 16 - Other Information</b>
---------------------------------------

**HMIS Ratings:**

Health: 2\*

Flammability: 4

Physical Hazard: 0

Personal Protection: X

**NFPA Ratings:**

Health: 2

Flammability: 4

Instability: 0

**VOLATILE ORGANIC COMPOUNDS, g/L:** 599

**REASON FOR REVISION:** Regulatory Update

**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

# Material Safety Data Sheet

**24 Hour Assistance:**  
**1-847-367-7700**  
**Rust-Oleum Corp.**  
**[www.rustoleum.com](http://www.rustoleum.com)**

## Section 1 - Chemical Product / Company Information

Product Name:	PRO LSPR 6PK SAFETY ORANGE	Revision Date:	09/23/2011
Identification Number:	7555838		
Product Use/Class:	Topcoat/Aerosols		
Supplier:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA	Manufacturer:	Rust-Oleum Corporation 11 Hawthorn Parkway Vernon Hills, IL 60061 USA
Preparer:	Regulatory Department		

## Section 2 - Composition / Information On Ingredients

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Weight % Less Than</u>	<u>ACGIH TLV-TWA</u>	<u>ACGIH TLV-STEL</u>	<u>OSHA PEL-TWA</u>	<u>OSHA PEL CEILING</u>
Liquefied Petroleum Gas	68476-86-8	30.0	N.E.	N.E.	N.E.	N.E.
Acetone	67-64-1	25.0	500 ppm	750 ppm	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	10.0	150 ppm	200 ppm	150 ppm	N.E.
Xylene	1330-20-7	10.0	100 ppm	150 ppm	100 ppm	N.E.
Methyl Ethyl Ketone	78-93-3	5.0	200 ppm	300 ppm	200 ppm	N.E.
Ethylbenzene	100-41-4	5.0	100 ppm	125 ppm	100 ppm	N.E.

### Section 3 - Hazards Identification

**\*\*\* Emergency Overview \*\*\*:** Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Harmful if swallowed. Extremely flammable liquid and vapor.

**Effects Of Overexposure - Eye Contact:** Causes eye irritation.

**Effects Of Overexposure - Skin Contact:** Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

**Effects Of Overexposure - Inhalation:** High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to

xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. Overexposure to methyl ethyl ketone in laboratory animals has been associated with liver abnormalities, kidney and lung damage. Fetotoxic/embryotoxic effects from inhalation have been seen in rats exposed to >1000ppm during gestation.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

#### **Section 4 - First Aid Measures**

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

#### **Section 5 - Fire Fighting Measures**

Flash Point: -156 F (Setaflash)

Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

Unusual Fire And Explosion Hazards: FLASH POINT IS LESS THAN 20 ° F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Perforation of the pressurized container may cause bursting of the can. Isolate from heat, electrical equipment, sparks and open flame. Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

#### **Section 6 - Accidental Release Measures**

Steps To Be Taken If Material Is Released Or Spilled: Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust.

#### **Section 7 - Handling And Storage**

Handling: Wash thoroughly after handling. Wash hands before eating. Avoid breathing vapor or mist. Use only in a well-ventilated area. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Storage: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F.



## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

**Respiratory Protection:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

**Protection provided by air purifying respirators is limited.** Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

**Skin Protection:** Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

**Eye Protection:** Use safety eyewear designed to protect against splash of liquids.

**Other protective equipment:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

**Hygienic Practices:** Wash thoroughly with soap and water before eating, drinking or smoking.

## Section 9 - Physical And Chemical Properties

Vapor Density:	Heavier than Air	Odor:	Solvent Like
Appearance:	Aerosolized Mist	Evaporation Rate:	Faster than Ether
Solubility in H <sub>2</sub> O:	Slight	Freeze Point:	N.D.
Specific Gravity:	0.792	pH:	N.A.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

**Incompatibility:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Stability:** This product is stable under normal storage conditions.

## Section 11 - Toxicological Information

**Chemical Name**

**LD50**

**LC50**

Liquefied Petroleum Gas	N.E.	N.E.
Acetone	5800 mg/kg (Rat)	50100 mg/m3 (Rat, 8Hr)
n-Butyl Acetate	13100 mg/kg (Rat, Oral)	2000 ppm (Rat, Inhalation, 4 Hr)
Xylene	4300 mg/kg (Rat, Oral)	5000 ppm (Rat, Inhalation, 4Hr)
Methyl Ethyl Ketone	N.E.	N.E.
Ethylbenzene	3500 mg/kg (Rat, Oral)	N.E.

## Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

## Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

## Section 14 - Transportation Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)
Proper Shipping Name:	Consumer Commodity	Aerosols	Aerosols
Hazard Class:	ORM-D	2.1	2.1
UN Number:	N.A.	UN1950	UN1950
Packing Group:	N.A.	N.A.	N.A.
Limited Quantity:	No	Yes	Yes

## Section 15 - Regulatory Information

### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

### SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS Number</u>
Xylene	1330-20-7
Methyl Ethyl Ketone	78-93-3
Ethylbenzene	100-41-4

### Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

**U.S. State Regulations: As follows -****New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

**Chemical Name**

Alkyd Resin

**CAS Number**

PROPRIETARY

**Pennsylvania Right-to-Know:**

The following non-hazardous ingredients are present in the product at greater than 3%.

**Chemical Name**

Alkyd Resin

**CAS Number**

PROPRIETARY

**International Regulations: As follows -****CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS:** AB5 D2A D2B

**Section 16 - Other Information****HMIS Ratings:**

Health: 2\*

Flammability: 4

Physical Hazard: 0

Personal Protection: X

**NFPA Ratings:**

Health: 2

Flammability: 4

Instability: 0

**VOLATILE ORGANIC COMPOUNDS, g/L:** 532

**REASON FOR REVISION:** Regulatory Update

**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

☒ Close this window

MSDS

**Common Name:** ROHPER LSPR 6PK GLOSS SAFETY BLUE, V2124838**Manufacturer:** RUST-OLEUM**MSDS Revision Date:** 12/15/2010**Grainger Item Number(s):** 5H896, 5H903**Manufacturer Model Number(s):**

### MSDS Table of Contents

Click the desired link below to jump directly to that section in the MSDS.

[SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION](#)  
[SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS](#)  
[SECTION 3 - HAZARDS IDENTIFICATION](#)  
[SECTION 4 - FIRST AID MEASURES](#)  
[SECTION 5 - FIRE FIGHTING MEASURES](#)  
[SECTION 6 - ACCIDENTAL RELEASE MEASURES](#)  
[SECTION 7 - HANDLING AND STORAGE](#)  
[SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION](#)  
[SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES](#)  
[SECTION 10 - STABILITY AND REACTIVITY](#)  
[SECTION 11 - TOXICOLOGICAL INFORMATION](#)  
[SECTION 12 - ECOLOGICAL INFORMATION](#)  
[SECTION 13 - DISPOSAL INFORMATION](#)  
[SECTION 14 - TRANSPORTATION INFORMATION](#)  
[SECTION 15 - REGULATORY INFORMATION](#)  
[SECTION 16 - OTHER INFORMATION](#)

### MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE:

1-847-367-7700

RUST-OLEUM CORP.

WWW.RUSTOLEUM.COM

### SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION



PRODUCT NAME: ROHPER LSPR 6PK GLOSS SAFETY BLUE

IDENTIFICATION NUMBER: V2124838

PRODUCT USE/CLASS: TOPCOAT/AEROSOLS

SUPPLIER:

RUST-OLEUM CORPORATION

11 HAWTHORN PARKWAY

VERNON HILLS, IL 60061

USA



MANUFACTURER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USA

PREPARER: REGULATORY DEPARTMENT

REVISION DATE: 12/15/2010

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS



CHEMICAL NAME	CAS NUMBER	WEIGHT % LESS THAN	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL CEILING
LIQUEFIED PETROLEUM GAS	68476-86-8	25.0	N.E.	N.E.	N.E.	N.E.
ACETONE	67-64-1	20.0	500 PPM	750 PPM	1000 PPM	N.E.
ALKYD RESIN	PROPRIETARY	20.0	N.E.	N.E.	N.E.	N.E.
n-BUTYL ACETATE	123-86-4	10.0	150 PPM	200 PPM	150 PPM	N.E.
XYLENE	1330-20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.
METHYL ETHYL KETONE	78-93-3	10.0	200 PPM	300 PPM	200 PPM	N.E.
TITANIUM DIOXIDE	13463-67-7	5.0	10 MG/M3	N.E.	15 MG/M3 (TOTAL DUST)	N.E.
ETHYLBENZENE	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E.
PROPYLENE GLYCOL MONOBUTYL ETHER	5131-66-8	5.0	N.E.	N.E.	N.E.	N.E.
AROMATIC PETROLEUM DISTILLATES	64742-94-5	5.0	N.E.	N.E.	N.E.	N.E.

## SECTION 3 - HAZARDS IDENTIFICATION



### EMERGENCY OVERVIEW:

CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. HARMFUL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

**EFFECTS OF OVEREXPOSURE - SKIN CONTACT:**

PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION.

**EFFECTS OF OVEREXPOSURE - INHALATION:**

HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.

**EFFECTS OF OVEREXPOSURE - INGESTION:**

ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED.

**EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:**

IARC LISTS ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). CONTAINS TITANIUM DIOXIDE. TITANIUM DIOXIDE IS LISTED AS A GROUP 2B-"POSSIBLY CARCINOGENIC TO HUMANS" BY IARC. SIGNIFICANT EXPOSURE IS NOT ANTICIPATED DURING BRUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF SURFACES OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF TITANIUM DIOXIDE IN THE FORMULA.

MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION) AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. OVEREXPOSURE TO XYLENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER ABNORMALITIES, KIDNEY, LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS REPRODUCTIVE DISORDERS. EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE, HAVE INCLUDED LIVER, CARDIAC ABNORMALITIES AND NERVOUS SYSTEM DAMAGE. OVEREXPOSURE TO METHYL ETHYL KETONE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER ABNORMALITIES, KIDNEY AND LUNG DAMAGE. FETOTOXIC/EMBRYOTOXIC EFFECTS FROM INHALATION HAVE BEEN SEEN IN RATS EXPOSED TO >1000 PPM DURING GESTATION.

**PRIMARY ROUTE(S) OF ENTRY:**

SKIN CONTACT, SKIN ABSORPTION, INHALATION, INGESTION, EYE CONTACT

**SECTION 4 - FIRST AID MEASURES****FIRST AID - EYE CONTACT:**

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. DO NOT ALLOW RUBBING OF EYES OR KEEPING EYES CLOSED.

**FIRST AID - SKIN CONTACT:**

WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.

**FIRST AID - INHALATION:**

IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE IMMEDIATELY.

**FIRST AID - INGESTION:****ASPIRATION HAZARD:**

DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL ATTENTION.

## SECTION 5 - FIRE FIGHTING MEASURES



FLASH POINT: -156 F (SETAFLASH)

### EXTINGUISHING MEDIA:

FILM FORMING FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR!

PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. KEEP CONTAINERS TIGHTLY CLOSED. WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.

### SPECIAL FIREFIGHTING PROCEDURES:

EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES



### STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

## SECTION 7 - HANDLING AND STORAGE



### HANDLING:

FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. USE ONLY IN A WELL-VENTILATED AREA. AVOID BREATHING VAPOR OR MIST. WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE EATING.

### STORAGE:

DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION



### ENGINEERING CONTROLS:

PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. USE EXPLOSION-PROOF VENTILATION EQUIPMENT. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

**RESPIRATORY PROTECTION:**

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR IN ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

**SKIN PROTECTION:**

NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN.

**EYE PROTECTION:**

USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

**OTHER PROTECTIVE EQUIPMENT:**

REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

**HYGIENIC PRACTICES:**

WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

VAPOR DENSITY: HEAVIER THAN AIR

ODOR: SOLVENT LIKE

APPEARANCE: AEROSOLIZED MIST

EVAPORATION RATE: FASTER THAN ETHER

SOLUBILITY IN H2O: SLIGHT

FREEZE POINT: N.D.

SPECIFIC GRAVITY: 0.827

pH: N.A.

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

**SECTION 10 - STABILITY AND REACTIVITY****CONDITIONS TO AVOID:**

AVOID TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

**INCOMPATIBILITY:**

INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

**HAZARDOUS DECOMPOSITION:**

BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE. WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

**STABILITY:**

THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

CHEMICAL NAME	LD50	LC50
LIQUEFIED PETROLEUM GAS	N.E.	N.E.
ACETONE	5800 MG/KG (RAT)	50100 MG/M3 (RAT, 8HR)
ALKYD RESIN	N.E.	N.E.
n-BUTYL ACETATE	13100 MG/KG (RAT, ORAL)	2000 PPM (RAT, INHALATION, 4 HR)
XYLENE	4300 MG/KG (RAT, ORAL)	5000 PPM (RAT, INHALATION, 4HR)
METHYL ETHYL KETONE	N.E.	N.E.
TITANIUM DIOXIDE	>7500 MG/KG (RAT, ORAL)	N.E.
ETHYLBENZENE	3500 MG/KG (RAT, ORAL)	N.E.
PROPYLENE GLYCOL MONOBUTYL ETHER	2200 MG/KG (RAT, ORAL)	N.E.
AROMATIC PETROLEUM DISTILLATES	4900 MG/KG (RAT, ORAL)	N.E.

**SECTION 12 - ECOLOGICAL INFORMATION**

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

**SECTION 13 - DISPOSAL INFORMATION****DISPOSAL INFORMATION:**

DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

**SECTION 14 - TRANSPORTATION INFORMATION**

	DOMESTIC (USDOT)	INTERNATIONAL (IMDG)	AIR (IATA)
PROPER SHIPPING NAME	CONSUMER COMMODITY	AEROSOLS	AEROSOLS
HAZARD CLASS	ORM-D	2.1	2.1
UN NUMBER	N.A.	UN1950	UN1950
PACKING GROUP	N.A.	N.A.	N.A.
LIMITED QUANTITY	NO	YES	YES

**SECTION 15 - REGULATORY INFORMATION**

CERCLA - SARA HAZARD CATEGORY:

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
XYLENE	1330-20-7
METHYL ETHYL KETONE	78-93-3
ETHYLBENZENE	100-41-4
AROMATIC PETROLEUM DISTILLATES	64742-94-5

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

NONE

PENNSYLVANIA RIGHT-TO-KNOW:

THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT



GREATER THAN 5%.

CHEMICAL NAME

CAS NUMBER

BARIUM SULFATE

7727-43-7

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS:

THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT  
REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS:

AB5

D2A

D2B

**SECTION 16 - OTHER INFORMATION**

NFPA RATINGS:

HEALTH 2

FLAMMABILITY 4

INSTABILITY 0

VOLATILE ORGANIC COMPOUNDS, G/L: 540

REASON FOR REVISION: REGULATORY UPDATE

LEGEND:

N.A. - NOT APPLICABLE

N.E. - NOT ESTABLISHED

N.D. - NOT DETERMINED

RUST-OLEUM CORPORATION BELIEVES, TO THE BEST OF ITS KNOWLEDGE, INFORMATION AND BELIEF, THE INFORMATION CONTAINED HEREIN TO BE ACCURATE AND RELIABLE AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, BECAUSE THE CONDITIONS OF HANDLING, USE, AND STORAGE OF THESE MATERIALS ARE BEYOND OUR CONTROL, WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE INCURRED BY THE USE OF THESE MATERIALS. RUST-OLEUM CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OR RELIABILITY OF THE DATA OR RESULTS OBTAINED FROM THEIR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE INFORMATION AND RECOMMENDATIONS IN THIS MATERIAL SAFETY DATA SHEET ARE OFFERED FOR THE USERS' CONSIDERATION AND EXAMINATION. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE FINAL SUITABILITY OF THIS INFORMATION AND TO COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

# Material Safety Data Sheet

24 Hour Assistance:  
1-847-367-7700  
Rust-Oleum Corp.  
www.rustoleum.com

## Section 1 - Chemical Product / Company Information

Product Name: Rust-Oleum Professional HP Enamel  
Primer Aerosol

Identification Number: 7569838, 7582838

Product Use/Class: Primer/Aerosol

Supplier: Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, IL 60061  
USA

Preparer: Regulatory Department

Revision Date: 12/08/2006

**MUST CURRENT MANUFACTURER UPDATE**

Manufacturer: Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, IL 60061  
USA

## Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Liquefied Petroleum Gas	68476-86-8	30.0	1000 PPM	N.E.	1000 PPM	N.E.
Acetone	67-64-1	20.0	500 PPM	750 PPM	750 PPM	N.E.
Xylene	1330-20-7	15.0	100 PPM	150 PPM	100 PPM	N.E.
Titanium Dioxide	13463-67-7	10.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Magnesium Silicate	14807-96-6	10.0	10 mg/m3	N.E.	15 mg/m3	N.E.
Ethylbenzene	100-41-4	10.0	100 PPM	125 PPM	100 PPM	N.E.
Zinc Phosphate	7779-90-0	5.0	N.E.	N.E.	N.E.	N.E.
Basic Zinc Molybdate	61583-60-6	5.0	10 mg/m3	N.E.	10 mg/m3	N.E.
Aromatic Hydrocarbon	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-Trimethylbenzene	95-63-6	5.0	25 PPM	N.E.	N.E.	N.E.

## Section 3 - Hazards Identification

\*\*\* Emergency Overview \*\*\*: Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Extremely flammable liquid and vapor. Harmful if swallowed.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue,

mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Eye Contact

## **Section 4 - First Aid Measures**

First Aid - Eye Contact: Hold eyelids apart and flush with plenty of water for at least 15 minutes. Get medical attention.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

## **Section 5 - Fire Fighting Measures**

Flash Point: -156 F  
(Setaflash)

LOWER EXPLOSIVE LIMIT: 0.8 %  
UPPER EXPLOSIVE LIMIT : 22.0 %

Extinguishing Media: Dry Chemical, Foam, Water Fog

Unusual Fire And Explosion Hazards: Perforation of the pressurized container may cause bursting of the can. Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. FLASH POINT IS LESS THAN 20 ° F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

## **Section 6 - Accidental Release Measures**

Steps To Be Taken If Material Is Released Or Spilled: Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

## **Section 7 - Handling And Storage**

Handling: Wash hands before eating. Use only in a well-ventilated area. Wash thoroughly after handling. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Storage: Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not expose to heat or store above 120 ° F.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment.

**Respiratory Protection:** A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection. A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**Skin Protection:** Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

**Eye Protection:** Use safety eyewear designed to protect against splash of liquids.

**Other protective equipment:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

**Hygienic Practices:** Wash thoroughly with soap and water before eating, drinking or smoking.

## Section 9 - Physical And Chemical Properties

Boiling Range:	-34 - 900 F	Vapor Density:	Heavier than air
Odor:	Solvent Like	Odor Threshold:	ND
Appearance:	Liquid	Evaporation Rate:	Faster than Ether
Solubility in H <sub>2</sub> O:	Slight		
Freeze Point:	ND	Specific Gravity:	
Vapor Pressure:		PH:	NE
Physical State:	Liquid		

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

**Incompatibility:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** When heated to decomposition, it emits acrid smoke and irritating fumes. By open flame, carbon monoxide and carbon dioxide.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Stability:** This product is stable under normal storage conditions.

## Section 11 - Toxicological Information

Product LD50: ND

Product LC50: ND

### Chemical Name

Liquefied Petroleum Gas

Acetone

Xylene

Titanium Dioxide

Magnesium Silicate

Ethylbenzene

Zinc Phosphate

Basic Zinc Molybdate

Aromatic Hydrocarbon

1,2,4-Trimethylbenzene

### LD50

N.D.

N.D.

N.D.

>7500 mg/kg (ORAL, RAT)

N.D.

3500 mg/kg (ORAL, RAT)

N.D.

N.D.

N.D.

N.D.

### LC50

N.D.

N.D.

N.D.

N.D.

TCLo:11mg/m3 inh.

N.D.

N.D.

N.D.

N.D.

18000 mg/m3 (RAT, 4 HR)

## Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

## Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

## Section 14 - Transportation Information

DOT Proper Shipping Name: Aerosol

DOT Technical Name: ---

DOT Hazard Class: 2.1

DOT UN/NA Number: UN1950

Packing Group: ---

Hazard Subclass: ---

Resp. Guide Page: 126

## Section 15 - Regulatory Information

### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

### SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

### Chemical Name

Xylene

### CAS Number

1330-20-7

Ethylbenzene  
Zinc Phosphate  
Basic Zinc Molybdate  
1,2,4-Trimethylbenzene

100-41-4  
7779-90-0  
61583-60-6  
95-63-6

**Toxic Substances Control Act:**

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

None known

**U.S. State Regulations: As follows -**

**New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

**Chemical Name**

Alkyd Resin

**CAS Number**

66070-60-8

**Pennsylvania Right-to-Know:**

The following non-hazardous ingredients are present in the product at greater than 3%.

**Chemical Name**

Alkyd Resin  
Calcium Carbonate  
Red Iron Oxide  
ACRYLIC RESIN

**CAS Number**

66070-60-8  
1317-65-3  
1332-37-2  
NOT AVAILABLE

**California Proposition 65:**

WARNING! This product contains a chemical(s) known by the State of California to cause cancer.

These products contain no known chemicals known by the State of California to cause birth defects or other reproductive harm.

**International Regulations: As follows -**

**CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS:** AB5, D2A, D2B

**Section 16 - Other Information**

**HMIS Ratings:**

Health: 2

Flammability: 4

Reactivity: 0

Personal Protection: X



**VOLATILE ORGANIC COMPOUNDS, g/l: N.A.**

**REASON FOR REVISION:**

**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

The information contained on this MSDS has been checked and should be accurate. However, it is the responsibility of the user to comply with all Federal, State, and Local laws and regulations.

## 1 PRODUCT AND COMPANY IDENTIFICATION

**Trade name:** Lead Free Solder Alloy

**Relevant identified uses of the substance or mixture and uses advised against** Professional use of solder

**Details of the supplier of the safety data sheet**

This Safety Data Sheet has been updated in accordance with the Globally Harmonized System (GHS).

**Manufacturer/Supplier:**

Kester  
800 West Throntdale Ave.  
Itasca, IL 60143  
Tel (630) 616-4000  
Fax (630) 616-4044

Kester Components Pte Ltd  
500 Chai Chee Lane  
Singapore 469024  
Tel: 65-64491133

**Information department:** SDS Coordinator (630) 616-6844

**Emergency telephone number:**

CHEMTREC 24-Hour Emergency Response Telephone Number : (800) 424-9300

CHEMTREC 24-Hour Emergency Response (Outside US & Canada) Telephone Number : (703) 527-3887

## 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008**



GHS08 Health hazard

Resp. Sens. 1B H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Skin Sens. 1B H317 May cause an allergic skin reaction.

**Label elements**

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**



GHS08

**Signal word** Danger

**Hazard statements**

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

**Precautionary statements**

P285 In case of inadequate ventilation wear respiratory protection.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

USA

**SAFETY DATA SHEET (SDS)**

According to 1907/2006/EC, Article 31

Printing Date 11/12/2012

Version number 4

Reviewed on 11/12/2012

**Trade name: Lead Free Solder Alloy****Hazard description:**

(Contd. of page 1)

**WHMIS Hazard Symbols**

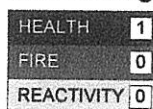
D2B - Toxic material causing other toxic effects

**Classification system:****NFPA ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**HMS-ratings (scale 0 - 4)**

Health = 1

Fire = 0

Reactivity = 0

**Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**3 COMPOSITION OF MIXTURE****Chemical characterization: Mixtures****Description:** Mixture: consisting of the following components.

CAS No.	Description	% Range
CAS: 7440-31-5 EINECS: 231-141-8	tin	95-100%
CAS: 7440-22-4 EINECS: 231-131-3	silver	2.5-5.0%
CAS: 7440-50-8 EINECS: 231-159-6	copper	≤ 1.0%

**Additional information:**

This solder product does not contain any Substance of Very High Concern (SVHC) on the European Chemicals Agency (ECHA) candidate list.

**4 FIRST AID MEASURES****Description of first aid measures****After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:** Rinse opened eye for several minutes under running water.**After swallowing:**

If symptoms persist consult doctor.

Seek immediate medical advice.

**Information for doctor:**

Most important symptoms and effects, both acute and delayed No further relevant information available.

Indication of any immediate medical attention and special treatment needed No further relevant information available.

USA

(Contd. on page 3)

**SAFETY DATA SHEET (SDS)**

According to 1907/2006/EC, Article 31

Printing Date 11/12/2012

Version number 4

Reviewed on 11/12/2012

Trade name: Lead Free Solder Alloy

(Contd. of page 2)

**5 FIREFIGHTING MEASURES****Extinguishing media****Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.**Special hazards arising from the substance or mixture***In case of fire, the following can be released:*Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

**Advice for firefighters****Protective equipment:***Fire fighters should be fully trained and wear full protective clothing including an approved, self-contained breathing apparatus which supplies a positive air pressure within a full face-piece mask.***6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures** *Ensure adequate ventilation***Environmental precautions:** *Do not allow to enter sewers/ surface or ground water.***Methods and material for containment and cleaning up:** *Pick up mechanically.***Reference to other sections***See Section 7 for information on safe handling.**See Section 8 for information on personal protection equipment.**See Section 13 for disposal information.***7 HANDLING AND STORAGE****Handling:****Precautions for safe handling** *Prevent formation of dust.***Information about protection against explosions and fires:** *No special measures required.***Conditions for safe storage, including any incompatibilities****Storage:***Requirements to be met by storerooms and receptacles:* *Store in a cool location.**Information about storage in one common storage facility:* *Not required.**Further information about storage conditions:* *None.***Specific end use(s)** *No further relevant information available.***8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Additional information about design of technical systems:** *No further data; see item 7.***Control parameters****Components with limit values that require monitoring at the workplace:****7440-31-5 tin**PEL 2 mg/m<sup>3</sup>  
metalREL 2 mg/m<sup>3</sup>TLV 2 mg/m<sup>3</sup>  
metal**7440-22-4 silver**PEL 0.01 mg/m<sup>3</sup>  
metal and soluble compounds (as Ag)REL 0.01 mg/m<sup>3</sup>TLV 0.1 mg/m<sup>3</sup>  
metal: dust and fume

(Contd. on page 4)

USA

# SAFETY DATA SHEET (SDS)

According to 1907/2006/EC, Article 31

Printing Date 11/12/2012

Version number 4

Reviewed on 11/12/2012

Trade name: Lead Free Solder Alloy

(Contd. of page 3)

**Additional information:**

PEL = Permissible Exposure Limit (OSHA)

TLV= Threshold Limit Value (ACGIH)

OSHA= Occupational Safety and Health Administration

ACGIH= American Conference of Governmental Industrial Hygienists

**Exposure controls****Personal protective equipment:**

General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Wash hands before breaks and at the end of work.

Breathing equipment:

Exposure Controls: Use appropriate engineering control such as process enclosures, local exhaust ventilation to control airborne levels below recommended exposure limits.

When ventilation is not sufficient to remove airborne levels from the breathing zone, a NIOSH safety approved respirator or self-contained breathing apparatus should be worn. Consult with local procedures for selection, training, inspection and maintenance of the personal protective equipment.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation



Protective gloves

**Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Nitrile rubber, NBR

Natural rubber, NR

Penetration time of glove material:

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses



Face Shield with Safety Glasses when refilling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties****General Information**

Appearance:

Form: Solid Metal preform; wire or bar

Color: Silver grey

Odor: Mild

pH-value: Not applicable.

**Change in condition**

Melting point/Melting range: 217 °C (423 °F)

Flash point: Undetermined.

Flammability (solid, gaseous): Not determined.

(Contd. on page 5)

USA

**SAFETY DATA SHEET (SDS)**

According to 1907/2006/EC, Article 31

Printing Date 11/12/2012

Version number 4

Reviewed on 11/12/2012

**Trade name: Lead Free Solder Alloy**

(Contd. of page 4)

<b>Auto igniting:</b>	Product is not selfigniting.
<b>Danger of explosion:</b>	Product does not present an explosion hazard.
<b>Vapor pressure:</b>	Not applicable.
<b>Density at 20 °C (68 °F):</b>	3.5 g/cm <sup>3</sup> (29.208 lbs/gal)
<b>Bulk density at 20 °C (68 °F):</b>	4000 kg/m <sup>3</sup>
<b>Vapour density</b>	Not applicable.
<b>Solubility in / Miscibility with Water:</b>	Insoluble.
<b>Solvent content:</b>	
Organic solvents:	0.0 %
Solids content:	100.0 %

**10 STABILITY AND REACTIVITY****Reactivity****Chemical stability***Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.***Possibility of hazardous reactions** No dangerous reactions known.**Conditions to avoid** No further relevant information available.**Incompatible materials:** Strong acids, strong oxidizers.**Hazardous decomposition products:** No dangerous decomposition products known.**11 TOXICOLOGICAL INFORMATION****Information on toxicological effects****Acute toxicity:***Primary irritant effect:**on the skin: Irritant to skin and mucous membranes.**on the eye: Irritating effect.***Additional toxicological information:****Carcinogenic categories**

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

**12 ECOLOGICAL INFORMATION****Toxicity****Aquatic toxicity:** No further relevant information available.**Additional ecological information:****General notes:***Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.**Danger to drinking water if even extremely small quantities leak into the ground.***Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.

USA

(Contd. on page 6)



**SAFETY DATA SHEET (SDS)**  
According to 1907/2006/EC, Article 31

Page 6/8

Printing Date 11/12/2012

Version number 4

Reviewed on 11/12/2012

Trade name: Lead Free Solder Alloy

(Contd. of page 5)

**13 DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Recommendation:**

*Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.*

**Uncleaned packagings:**

**Recommendation:** *Disposal must be made according to official regulations.*

**Recommended cleansing agent:** *Water, if necessary with cleansing agents.*

**14 TRANSPORT INFORMATION**

**UN-Number**

**DOT, ADN, IMDG, IATA**

**ADR**

*Not applicable*

*Not applicable*

*Not regulated*

**UN proper shipping name**

**DOT, ADR, ADN**

**IMDG, IATA**

**Transport hazard class(es)**

*Not applicable*

*Not regulated*

**DOT**

**Class**

*Not applicable*

*Not regulated.*

**ADR, ADN, IMDG, IATA**

**Class**

*Not applicable*

**Packing group**

**DOT, ADR, IMDG, IATA**

**Environmental hazards:**

*Not applicable*

**Marine pollutant:**

*No*

**Special precautions for user**

*Not applicable.*

**Transport in bulk according to Annex II of MARPOL73/78  
and the IBC Code**

*Not applicable.*

**15 REGULATORY INFORMATION**

**Safety, health and environmental regulations/legislation specific for the substance or mixture**

**USA** *The following information relates to product regulation specific to the USA.*

**SARA (Superfund Amendments and Reauthorization Act)**

**Section 355 (extremely hazardous substances):**

*None of the ingredient is listed.*

**Section 313 (Specific toxic chemical listings):**

7440-22-4 silver

7440-50-8 copper

**TSCA (Toxic Substances Control Act):** *Kester certifies that all components listed below for the subject finished product are on the TSCA Inventory of Chemical Substances and are not subject to any chemical specific regulation under TSCA Section 12(b) export notification requirements delineated at 40 CFR part 707, subpart D.*

*All ingredients are listed or exempt from listing.*

**California Proposition 65**

**Chemicals known to cause cancer:**

*None of the ingredients is listed.*

(Contd. on page 7)

USA

**SAFETY DATA SHEET (SDS)**

According to 1907/2006/EC, Article 31

Printing Date 11/12/2012

Version number 4

Reviewed on 11/12/2012

**Trade name: Lead Free Solder Alloy**

(Contd. of page 6)

Chemicals known to cause reproductive toxicity:

None of the ingredients is listed.

Carcinogenic categories

EPA (Environmental Protection Agency)

7440-22-4 silver

D

7440-50-8 copper

D

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety &amp; Health Administration)

None of the ingredients is listed.

CANADA:

Workplace Hazardous Materials Identification (WHMIS):

This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulation (CPR) and the Safety Data Sheet (SDS) contains all of the information required by the CPR.

**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS08

Signal word Danger

Hazard statements

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

Precautionary statements

P285 In case of inadequate ventilation wear respiratory protection.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 OTHER INFORMATION**

The information contained herein is based on data considered accurate and is offered solely for information, consideration and investigation. Kester extends no warranties, makes no representations and assumes no responsibility as to the accuracy, completeness or suitability of this data for any purchaser's use. The data on this Material Safety Data Sheet relates only to this product and does not relate to use with any other material or in any process. All chemical products should be used only by, or under the direction of, technically qualified personnel who are aware of the hazards involved and the necessity for reasonable care in handling. Hazard communication regulations require that employees must be trained on how to use a Material Safety Data Sheet as a source for hazard information.

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

(Contd. on page 8)

USA

**SAFETY DATA SHEET (SDS)**

According to 1907/2006/EC, Article 31

Printing Date 11/12/2012

Version number 4

Reviewed on 11/12/2012

**Trade name: Lead Free Solder Alloy**

WHMIS: Workplace Hazardous Materials Information System (Canada)

(Contd. of page 7)

**\* Data compared to the previous version altered.**

USA

MSDS B0784

ITEM: 5H905 - Spray Paint, Dark Machine Gray, 15 oz.

DELIVERY: 6197883113

HU NUMBER: U847522113

## MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

## MATERIAL SAFETY DATA SHEET - B0784

Associated Grainger Items

5

## MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE:  
1-847-367-7700  
RUST-OLEUM CORP.

WWW.RUSTOLEUM.COM

## -----SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION-----

PRODUCT NAME: ROHPER LSPR 6PK FLAT WHITE

IDENTIFICATION NUMBER: V2190838

REVISION DATE: 12/16/2010

PRODUCT USE/CLASS: TOPCOAT/AEROSOLS

SUPPLIER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USAMANUFACTURER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USA

PREPARER: REGULATORY DEPARTMENT

## -----SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS-----

CHEMICAL NAME CAS NUMBER WEIGHT % LESS THAN

LIQUEFIED PETROLEUM GAS 68476-86-8 25.0

ACETONE 67-64-1 25.0

TITANIUM DIOXIDE 13463-67-7 10.0

ALKYD RESIN PROPRIETARY 10.0

MAGNESIUM SILICATE 14807-96-6 10.0

n-BUTYL ACETATE 123-86-4 5.0

MINERAL SPIRITS 64742-88-7 5.0

TOLUENE 108-88-3 5.0

XYLENE 1330-20-7 5.0

SOLVENT NAPHTHA, LIGHT AROMATIC 64742-95-6 5.0

1,2,4-TRIMETHYLBENZENE 95-63-6 5.0

CALCINED ALUMINUM SILICATE 1332-58-7 5.0

ETHYLBENZENE 100-41-4 1.0

CHEMICAL NAME ACGIH TLV-TWA ACGIH TLV-STEL OSHA PEL OSHA PEL  
TLV-TWA TLV-STEL PEL-TWA CEILING

LIQUEFIED PETROLEUM GAS N.E. N.E. N.E. N.E.

ACETONE 500 PPM 750 PPM 1000 PPM N.E.

TITANIUM DIOXIDE 10 MG/M3 N.E. 15 MG/M3 N.E.  
(TOTAL DUST)

ALKYD RESIN N.E. N.E. N.E. N.E.

MAGNESIUM SILICATE 2 MG/M3 N.E. 0.1 MG/M3 N.E.  
(RESPIRABLE)

n-BUTYL ACETATE 150 PPM 200 PPM 150 PPM N.E.

MINERAL SPIRITS 100 PPM N.E. 100 PPM N.E.

TOLUENE 20 PPM N.E. 200 PPM 300 PPM

XYLENE 100 PPM 150 PPM 100 PPM N.E.

SOLVENT NAPHTHA, LIGHT AROMATIC N.E. N.E. N.E. N.E.

1,2,4-TRIMETHYLBENZENE 25 PPM N.E. N.E. N.E.

CALCINED ALUMINUM SILICATE 2 MG/M3 N.E. 5 MG/M3 N.E.  
(RESPIRABLE)

ETHYLBENZENE 100 PPM 125 PPM 100 PPM N.E.

## -----SECTION 3 - HAZARDS IDENTIFICATION-----

EMERGENCY OVERVIEW:  
CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR  
NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE  
FLASH FIRE OR EXPLOSION. HARMFUL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID

AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:  
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY  
CAUSE SLIGHT SKIN IRRITATION.EFFECTS OF OVEREXPOSURE - INHALATION:  
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND  
LUNGS.AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST  
CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.EFFECTS OF OVEREXPOSURE - INGESTION:  
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE.  
SUBSTANCE MAY BE HARMFUL IF SWALLOWED.EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:  
CONTAINS TITANIUM DIOXIDE. TITANIUM DIOXIDE IS LISTED AS A GROUP  
2B-"POSSIBLY CARCINOGENIC TO HUMANS" BY IARC. SIGNIFICANT EXPOSURE IS NOT  
ANTICIPATED DURING BRUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE  
DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF  
SURFACES OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF TITANIUM DIOXIDE IN  
THE FORMULA.MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS  
OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION)  
AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL  
5H905PRIMARY ROUTE(S) OF ENTRY:  
SKIN CONTACT, SKIN ABSORPTION, INHALATION, INGESTION, EYE CONTACT

## -----SECTION 4 - FIRST AID MEASURES-----

FIRST AID - EYE CONTACT:  
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING  
EYELIDS OPEN. GET MEDICAL ATTENTION. DO NOT ALLOW RUBBING OF EYES OR  
KEEPING EYES CLOSED.FIRST AID - SKIN CONTACT:  
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR  
PERSISTS.FIRST AID - INHALATION:  
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH  
AIR.

IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE IMMEDIATELY.

FIRST AID - INGESTION:

ASPIRATION HAZARD:  
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN  
ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL  
ATTENTION.

## -----SECTION 5 - FIRE FIGHTING MEASURES-----

FLASH POINT: -156 F (SETAFLASH)

EXTINGUISHING MEDIA:  
FILM FORMING FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR!

PERFORMANCE OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN.  
ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. KEEP  
CONTAINERS TIGHTLY CLOSED. WATER SPRAY MAY BE INEFFECTIVE. CLOSED  
CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS MAY FORM  
EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND  
FLASH BACK.SPECIAL FIREFIGHTING PROCEDURES:  
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## -----SECTION 6 - ACCIDENTAL RELEASE MEASURES-----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS  
SUCH AS SAWDUST. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA AND REMOVE  
WITH INERT ABSORBENT AND NON-SPARKING TOOLS. DISPOSE OF ACCORDING TO LOCAL,  
STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED  
CONTAINERS.

## -----SECTION 7 - HANDLING AND STORAGE-----

HANDLING:  
FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE  
IT MAY RETAIN PRODUCT RESIDUES. USE ONLY IN A WELL-VENTILATED AREA. AVOID  
BREATHING VAPOR OR MIST. WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE  
EATING.STORAGE:  
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED  
AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. CONTENTS UNDER  
PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F. KEEP CONTAINERS  
TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN  
FLAME.

## -----SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION-----

ENGINEERING CONTROLS:  
PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. USE EXPLOSION-PROOF VENTILATION EQUIPMENT. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

RESPIRATORY PROTECTION:  
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR IN ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

SKIN PROTECTION:  
NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN.

EYE PROTECTION:  
USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

OTHER PROTECTIVE EQUIPMENT:  
REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

HYGIENIC PRACTICES:  
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

#### -----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

VAPOR DENSITY: HEAVIER THAN AIR

APPEARANCE: AEROSOLIZED MIST

SOLUBILITY IN H<sub>2</sub>O: SLIGHT

SPECIFIC GRAVITY: 0.873

PHYSICAL STATE: LIQUID

ODOR: SOLVENT LIKE

EVAPORATION RATE: FASTER THAN ETHER

FREEZE POINT: N.D.

pH: N.A.

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

#### -----SECTION 10 - STABILITY AND REACTIVITY -----

CONDITIONS TO AVOID:  
AVOID TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

INCOMPATIBILITY:  
INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

HAZARDOUS DECOMPOSITION:  
BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE. WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

#### -----SECTION 11 - TOXICOLOGICAL INFORMATION -----

CHEMICAL NAME	LD50	LC50
LIQUEFIED PETROLEUM GAS	N.E.	N.E.
ACETONE	5800 MG/KG (RAT)	50100 MG/M3 (RAT, 8HR)
TITANIUM DIOXIDE (ORAL)	>7500 MG/KG (RAT)	N.E.
ALKYD RESIN	N.E.	N.E.
MAGNESIUM SILICATE	N.E.	TCLO: 11 MG/M3 (INHALATION)
n-BUTYL ACETATE (ORAL)	13100 MG/KG (RAT, 4HR)	2000 PPM (RAT, INHALATION, 4HR)
MINERAL SPIRITS (ORAL)	>5000 MG/KG (RAT, 4HR)	>1400 PPM (RAT, INHALATION, 4HR)
TOLUENE (ORAL)	636 MG/KG (RAT, INHALATION, 1HR)	>26700 PPM (RAT, INHALATION, 1HR)
XYLENE (ORAL)	4300 MG/KG (RAT, 4HR)	5000 PPM (RAT, INHALATION, 4HR)
SOLVENT NAPHTHA, LIGHT (ORAL)	4700 MG/KG (RAT, INHALATION)	3670 MG/KG (RAT, INHALATION)
1,2-DIMETHYLBENZENE	N.E.	18000 MG/M3 (RAT, 4HR)
CALCINED ALUMINUM SILICATE (ORAL)	5000 MG/KG (RAT)	N.E.
ETHYLBENZENE (ORAL)	3500 MG/KG (RAT)	N.E.

#### -----SECTION 12 - ECOLOGICAL INFORMATION -----

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

#### -----SECTION 13 - DISPOSAL INFORMATION -----

DISPOSAL INFORMATION:  
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

#### -----SECTION 14 - TRANSPORTATION INFORMATION -----

DOMESTIC (US DOT) INTERNATIONAL (IMDG) AIR (IATA)

PROPER SHIPPING NAME	CONSUMER COMMODITY	AEROSOLS	AEROSOLS
HAZARD CLASS	ORM-D	2.1	2.1
UN NUMBER	N.A.	UN1950	UN1950
PACKING GROUP	N.A.	N.A.	N.A.
LIMITED QUANTITY	NO	YES	YES

#### -----SECTION 15 - REGULATORY INFORMATION -----

CERCLA - SARA HAZARD CATEGORY:

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:  
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
TOLUENE	108-88-3
XYLENE	1330-20-7
1,2,4-TRIMETHYLBENZENE	95-63-6

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:  
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

CHEMICAL NAME	CAS NUMBER
LIMESTONE	1317-65-3

PENNSYLVANIA RIGHT-TO-KNOW:  
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%.

CHEMICAL NAME	CAS NUMBER
LIMESTONE	1317-65-3

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS:  
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5 D2A D2B

#### -----SECTION 16 - OTHER INFORMATION -----

NFPA RATINGS:  
HEALTH 2  
FLAMMABILITY 4  
INSTABILITY 0

VOLATILE ORGANIC COMPOUNDS, G/L: 507

REASON FOR REVISION: REGULATORY UPDATE

LEGEND:  
N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

RUST-OLEUM CORPORATION BELIEVES, TO THE BEST OF ITS KNOWLEDGE, INFORMATION AND BELIEF, THE INFORMATION CONTAINED HEREIN TO BE ACCURATE AND RELIABLE AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, BECAUSE THE CONDITIONS OF HANDLING, USE, AND STORAGE OF THESE MATERIALS ARE BEYOND OUR CONTROL, WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE INCURRED BY THE USE OF THESE MATERIALS. RUST-OLEUM CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OR RELIABILITY OF THE DATA OR RESULTS OBTAINED FROM THEIR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE INFORMATION AND RECOMMENDATIONS IN THIS MATERIAL SAFETY DATA SHEET ARE OFFERED FOR THE USERS' CONSIDERATION AND EXAMINATION. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE FINAL SUITABILITY OF THIS INFORMATION AND TO COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.



MSDS B0831

ITEM: 5W179 - Rust Preventative Spray Paint, Black, 15oz  
DELIVERY: 6197883113 HU NUMBER: U847522113

## MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

## MATERIAL SAFETY DATA SHEET - B0831

A-1 and Grainger Items  
5-

## MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE: 1-847-367-7700

RUST-OLEUM CORP.  
WWW.RUSTOLEUM.COM

## -----SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION -----

PRODUCT NAME:  
RUST-OLEUM HIGH PERFORMANCE INDUSTRIAL ENAMEL AEROSOL - HIGH HEAT  
(FORMERLY KNOWN AS HARD HAT)

IDENTIFICATION NUMBER: V2116838, V2176838

PRODUCT USE/CLASS: HIGH HEAT COATING/AEROSOL

REVISION DATE: 11/21/2006

SUPPLIER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USAMANUFACTURER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USA

PREPARER: REGULATORY DEPARTMENT

## -----SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS -----

CHEMICAL NAME CAS NUMBER WEIGHT % LESS THAN

TOLUENE 108-88-3 35.0

LIQUEFIED PETROLEUM GAS 68476-86-8 30.0

ACETONE 67-64-1 15.0

ALUMINUM FLAKE 7429-90-5 10.0

STODDARD SOLVENTS 8052-41-3 10.0

XYLENE 1330-20-7 10.0

IRON MANGANESE OXIDE 68186-94-7 10.0

AROMATIC SOLVENT 64742-95-6 5.0

MAGNESIUM SILICATE 14807-96-6 5.0

ETHYLBENZENE 100-41-4 5.0

MANGANESE DIOXIDE 1313-13-9 5.0

CHEMICAL NAME ACGIH TLV-TWA ACGIH TLV-STEL OSHA PEL-TWA OSHA PEL-CEILING

TOLUENE 50 PPM 150 PPM 200 PPM 300 PPM

LIQUEFIED PETROLEUM GAS 1000 PPM N.E. 1000 PPM N.E.

ACETONE 500 PPM 750 PPM 750 PPM N.E.

ALUMINUM FLAKE 10 MG/M3 N.E. 15 MG/M3 N.E.

STODDARD SOLVENTS 100 PPM N.E. 500 PPM N.E.

XYLENE 100 PPM 150 PPM 100 PPM N.E.

IRON MANGANESE OXIDE 10 MG/M3 N.E. N.E. N.E.

AROMATIC SOLVENT N.E. N.E. N.E. N.E.

MAGNESIUM SILICATE 10 MG/M3 N.E. 15 MG/M3 N.E.

ETHYLBENZENE 100 PPM 125 PPM 100 PPM N.E.

MANGANESE DIOXIDE 0.2 MG/M3 N.E. 5 MG/M3 N.E.

## -----SECTION 3 - HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW:  
CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS  
SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR  
EXPLOSION. EXTREMELY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:  
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY CAUSE  
SLIGHT SKIN IRRITATION.EFFECTS OF OVEREXPOSURE - INHALATION:  
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND  
LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST  
CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.EFFECTS OF OVEREXPOSURE - INGESTION:  
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE.  
SUBSTANCE MAY BE HARMFUL IF SWALLOWED.EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:  
IARC LISTS ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). MAY CAUSE  
CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF  
COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION)  
AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL  
SW179PRIMARY ROUTE(S) OF ENTRY:  
SKIN CONTACT, SKIN ABSORPTION, INHALATION, EYE CONTACT

## -----SECTION 4 - FIRST AID MEASURES -----

FIRST AID - EYE CONTACT:  
HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.  
GET MEDICAL ATTENTION.FIRST AID - SKIN CONTACT:  
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR  
PERSISTS.FIRST AID - INHALATION:  
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH  
AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE  
IMMEDIATELY.

FIRST AID - INGESTION:

ASPIRATION HAZARD:  
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN  
ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL  
ATTENTION.

## -----SECTION 5 - FIRE FIGHTING MEASURES -----

FLASH POINT(SETAFLASH): -156 F

LOWER EXPLOSIVE LIMIT: 0.7 %  
UPPER EXPLOSIVE LIMIT: 32.5 %

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN.  
WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED  
TO EXTREME HEAT. FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE  
LIQUID AND VAPOR VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN  
TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. KEEP CONTAINERS TIGHTLY  
CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.SPECIAL FIREFIGHTING PROCEDURES:  
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## -----SECTION 6 - ACCIDENTAL RELEASE MEASURES -----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT  
ABSORBENT AND NON-SPARKING TOOLS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH.  
DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. DISPOSE OF ACCORDING TO  
LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED  
CONTAINERS.

## -----SECTION 7 - HANDLING AND STORAGE -----

HANDLING:  
WASH HANDS BEFORE EATING. USE ONLY IN A WELL-VENTILATED AREA. WASH  
THOROUGHLY AFTER HANDLING. AVOID BREATHING VAPOR OR MIST. FOLLOW ALL  
MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN  
PRODUCT RESIDUES.STORAGE:  
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED  
AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. KEEP CONTAINERS  
TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN  
FLAME. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120  
DEG. F.

## -----SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION -----

ENGINEERING CONTROLS:  
PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE  
CROSS-VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR  
OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED  
EXPOSURE LIMITS. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.RESPIRATORY PROTECTION:  
A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR  
CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES  
WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE  
PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN  
UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER  
CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE  
PROTECTION. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND  
ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS  
WARRANT A RESPIRATOR'S USE.SKIN PROTECTION:  
NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE  
IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL  
THROUGH THE SKIN.



EYE PROTECTION:  
USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

OTHER PROTECTIVE EQUIPMENT:  
REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

HYGIENIC PRACTICES:  
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

#### -----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

BOILING RANGE: -34 - 900 F

VAPOR DENSITY: HEAVIER THAN AIR

ODOR: SOLVENT LIKE

ODOR THRESHOLD: ND

APPEARANCE: LIQUID

EVAPORATION RATE: FASTER THAN ETHER

SOLUBILITY IN H<sub>2</sub>O: SLIGHT

FREEZE POINT: ND

SPECIFIC GRAVITY: 0.8210

VAPOR PRESSURE: ND

pH: NE

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

#### -----SECTION 10 - STABILITY AND REACTIVITY -----

CONDITIONS TO AVOID:  
AVOID TEMPERATURES ABOVE 120 DEG. F. FLAMMABLE HYDROGEN GAS WILL EVOLVE WHEN PRODUCT COMES IN CONTACT WITH WATER OR DAMP AIR. HEAT WILL BE GENERATED. THE AMOUNT OF HEAT GENERATED WILL DEPEND UPON THE VOLUME OF MATERIAL IN CONTACT. AVOID ALL POSSIBLE SOURCES OF IGNITION.

INCOMPATIBILITY:  
INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

HAZARDOUS DECOMPOSITION:  
WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

#### -----SECTION 11 - TOXICOLOGICAL INFORMATION -----

PRODUCT LD50: ND

PRODUCT LC50: ND

CHEMICAL NAME	LD50	LC50
TOLUENE	N.D.	N.D.
LIQUEFIED PETROLEUM GAS	N.D.	N.D.
ACETONE	N.D.	N.D.
ALUMINUM FLAKE	N.D.	N.D.
STODDARD SOLVENTS	N.D.	N.D.
XYLENE	N.D.	N.D.
IRON MANGANESE OXIDE	>5000 MG/KG (ORAL, RAT) N.D.	
AROMATIC SOLVENT	4700 MG/KG (ORAL, RAT)	3670 MG/KG (INH, RAT)
MAGNESIUM SILICATE	N.D.	TCLO: 11 MG/M3 INH.
ETHYLBENZENE	3500 MG/KG (ORAL, RAT)	N.D.
MANGANESE DIOXIDE	3478 MG/KG (ORAL, RAT)	N.D.

#### -----SECTION 12 - ECOLOGICAL INFORMATION -----

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

#### -----SECTION 13 - DISPOSAL INFORMATION -----

DISPOSAL INFORMATION:  
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

#### -----SECTION 14 - TRANSPORTATION INFORMATION -----

DOT SHIPPING NAME: AEROSOL

PAK GROUP:

DOT TECHNICAL NAME:

HAZARD SUBCLASS:

DOT HAZARD CLASS: 2.1

RESP. GUIDE PAGE: 126

DOT UN/NA NUMBER: UN1950

#### -----SECTION 15 - REGULATORY INFORMATION -----

CERCLA - SARA HAZARD CATEGORY:  
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:  
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

SARA SECTION 313:  
LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
TOLUENE	108-88-3
XYLENE	1330-20-7
IRON MANGANESE OXIDE	68186-94-7
ETHYLBENZENE	100-41-4
MANGANESE DIOXIDE	1313-13-9

TOXIC SUBSTANCES CONTROL ACT:  
LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES: NONE KNOWN

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW:  
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

CHEMICAL NAME	CAS NUMBER
SILICONIZED ALKYD RESIN	PROPRIETARY

PENNSYLVANIA RIGHT-TO-KNOW:  
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%.

CHEMICAL NAME	CAS NUMBER
SILICONIZED ALKYD RESIN	PROPRIETARY

CALIFORNIA PROPOSITION 65:

WARNING!

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING!

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS:  
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

#### -----SECTION 16 - OTHER INFORMATION -----

HMIS RATINGS:  
HEALTH 2  
FLAMMABILITY 4  
REACTIVITY 0  
PERSONAL PROTECTION X

VOLATILE ORGANIC COMPOUNDS, G/L: 638 MAX

REASON FOR REVISION:

LEGEND:  
N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

MSDS B4667

ITEM: 5H904 - Spray Paint, Light Machine Gray, 15 oz.

DELIVERY: 6197883113

HU NUMBER: U847522113

## MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

## MATERIAL SAFETY DATA SHEET - B4667

Associated Grainger Items  
SI

## MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE:  
1-847-367-7700  
RUST-OLEUM CORP.

WWW.RUSTOLEUM.COM

## -----SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION-----

PRODUCT NAME: ROHPER LSPR 6PK GLS LIGHT MACHINE GRAY

IDENTIFICATION NUMBER: V2183838

PRODUCT USE/CLASS: TOPCOAT/AEROSOL

SUPPLIER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USA

PREPARER: REGULATORY DEPARTMENT

REVISION DATE: 12/16/2010

MANUFACTURER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USA

## -----SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS-----

CHEMICAL NAME	CAS NUMBER	WEIGHT %	ACGIH LESS THAN	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL CEILING
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LIQUEFIED PETROLEUM GAS	68476-86-8	30.0	N.E.	N.E.	N.E.	N.E.	
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ACETONE	67-64-1	25.0	500 PPM	750 PPM	1000 PPM	N.E.	
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ALUMINUM RESIN	PROPRIETARY	20.0	N.E.	N.E.	N.E.	N.E.	
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n-BUTYL ACETATE	123-86-4	15.0	150 PPM	200 PPM	150 PPM	N.E.	
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XYLENE	1330-20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.	
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TITANIUM DIOXIDE	13463-67-7	10.0	10	15	MG/M3	N.E.	
					(DUST)	(TOTAL)	

ETHYLBENZENE	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E.	
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PROPYLENE GLYCOL MONOBUTYL ETHER	5131-66-8	5.0	N.E.	N.E.	N.E.	N.E.	
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## -----SECTION 3 - HAZARDS IDENTIFICATION-----

EMERGENCY OVERVIEW:  
CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. HARMFUL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:  
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION.EFFECTS OF OVEREXPOSURE - INHALATION:  
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS.

AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.

EFFECTS OF OVEREXPOSURE - INGESTION:  
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED.EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:  
IARC LISTS ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). CONTAINS TITANIUM DIOXIDE. TITANIUM DIOXIDE IS LISTED AS A GROUP 2B-"POSSIBLY CARCINOGENIC TO HUMANS" BY IARC. SIGNIFICANT EXPOSURE IS NOT ANTICIPATED DURING NORMAL USE. RISK OF OVEREXPOSURE DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF SURFACES OR SPILLAGE AND THE ACTUAL CONCENTRATION OF TITANIUM DIOXIDE IN THE FORMULA.

MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION) AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL 5H904

PRIMARY ROUTE(S) OF ENTRY:  
SKIN CONTACT, SKIN ABSORPTION, INHALATION, INGESTION, EYE CONTACT

## -----SECTION 4 - FIRST AID MEASURES-----

FIRST AID - EYE CONTACT:  
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. DO NOT ALLOW RUBBING OF EYES OR KEEPING EYES CLOSED.FIRST AID - SKIN CONTACT:  
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.FIRST AID - INHALATION:  
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE IMMEDIATELY.

FIRST AID - INGESTION:

ASPIRATION HAZARD:  
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL ATTENTION.

## -----SECTION 5 - FIRE FIGHTING MEASURES-----

FLASH POINT: -156 F (SETAFLASH)

EXTINGUISHING MEDIA:  
FILM FORMING FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR!

PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. KEEP CONTAINERS TIGHTLY CLOSED. WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.

SPECIAL FIREFIGHTING PROCEDURES:  
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## -----SECTION 6 - ACCIDENTAL RELEASE MEASURES-----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

## -----SECTION 7 - HANDLING AND STORAGE-----

HANDLING:  
FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. USE ONLY IN A WELL-VENTILATED AREA. AVOID BREATHING VAPOR OR MIST. WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE EATING.STORAGE:  
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.

## -----SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION-----

ENGINEERING CONTROLS:  
PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. USE EXPLOSION-PROOF VENTILATION EQUIPMENT. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.RESPIRATORY PROTECTION:  
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR IN ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

SKIN PROTECTION:  
NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN.EYE PROTECTION:  
USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.OTHER PROTECTIVE EQUIPMENT:  
REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.HYGIENIC PRACTICES:  
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

-----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

VAPOR DENSITY: HEAVIER THAN AIR

ODOR: SOLVENT LIKE

APPEARANCE: AEROSOLIZED MIST

EVAPORATION RATE: FASTER THAN ETHER

SOLUBILITY IN H<sub>2</sub>O: SLIGHT

FREE POINT: N.D.

SPECIFIC GRAVITY: 0.823

pH: N.A.

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

-----SECTION 10 - STABILITY AND REACTIVITY -----

CONDITIONS TO AVOID:  
AVOID TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

INCOMPATIBILITY:  
INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

HAZARDOUS DECOMPOSITION:  
BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE. WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

-----SECTION 11 - TOXICOLOGICAL INFORMATION -----

CHEMICAL NAME	LD50	LC50
LIQUEFIED PETROLEUM GAS	N.E.	N.E.
ACETONE	5800 MG/KG (RAT) (RAT, 8HR)	50100 MG/M3
ALKYD RESIN	N.E.	N.E.
n-BUTYL ACETATE (RAT, ORAL)	13100 MG/KG (RAT, INHALATION, 4 HR)	2000 PPM
XYLENE (RAT, ORAL)	4300 MG/KG (RAT, INHALATION, 4 HR)	5000 PPM
CHLORINE DIOXIDE (RAT, ORAL)	>7500 MG/KG	N.E.
ETHYLBENZENE (RAT, ORAL)	3500 MG/KG	N.E.
PROPYLENE GLYCOL MONOBUTYL ETHER (RAT, ORAL)	2200 MG/KG	N.E.

-----SECTION 12 - ECOLOGICAL INFORMATION -----

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

-----SECTION 13 - DISPOSAL INFORMATION -----

DISPOSAL INFORMATION:  
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

-----SECTION 14 - TRANSPORTATION INFORMATION -----

	DOMESTIC (US DOT)	INTERNATIONAL (IMDG)	AIR (IATA)
PROPER SHIPPING NAME:	CONSUMER COMMODITY	AEROSOLS	AEROSOLS
HAZARD CLASS:	ORM-D	2.1	2.1
UN NUMBER:	N.A.	UN1950	UN1950
PACKING GROUP:	N.A.	N.A.	N.A.
LIMITED QUANTITY:	NO	YES	YES

-----SECTION 15 - REGULATORY INFORMATION -----

CERCLA - SARA HAZARD CATEGORY:

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:  
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
XYLENE	1330-20-7
ETHYLBENZENE	100-41-4

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW:

THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.:  
NONE

PENNSYLVANIA RIGHT-TO-KNOW:

THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%.:  
NONE

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS:  
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5 D2A D2B

-----SECTION 16 - OTHER INFORMATION -----

NFPA RATINGS:  
HEALTH 2  
FLAMMABILITY 4  
INSTABILITY 0

VOLATILE ORGANIC COMPOUNDS, G/L: 534

REASON FOR REVISION: REGULATORY UPDATE

LEGEND:  
N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

RUST-OLEUM CORPORATION BELIEVES, TO THE BEST OF ITS KNOWLEDGE, INFORMATION AND BELIEF, THE INFORMATION CONTAINED HEREIN TO BE ACCURATE AND RELIABLE AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, BECAUSE THE CONDITIONS OF HANDLING, USE, AND STORAGE OF THESE MATERIALS ARE BEYOND OUR CONTROL, WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE INCURRED BY THE USE OF THESE MATERIALS. RUST-OLEUM CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OR RELIABILITY OF THE DATA OR RESULTS OBTAINED FROM THEIR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE INFORMATION AND RECOMMENDATIONS IN THIS MATERIAL SAFETY DATA SHEET ARE OFFERED FOR THE USERS' CONSIDERATION AND EXAMINATION. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE FINAL SUITABILITY OF THIS INFORMATION AND TO COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.



Material Safety Data Sheet  
OSHA's Hazard Communication Standard  
U.S. Department of Labor

29 CFR 1910.1200

OMB No. 1218-0072

Identity # 070271; 070274

Name STEAM IT CLEAN CARPET EXTRACTION CLEANER

Section 1

Manufactured For - Waxie Sanitary Supply

Address - 9353 Waxie Way

Emergency Phone (Chem-Tel) 1-(800) 255-3924

City - San Diego State - CA 92123-1036

Phone - (800) 995-4466

Date Prepared- 4/6/2005

Section 2 - Hazardous Ingredients/Identity Information

Hazardous Components	CAS#	OSHA PEL	ACGIH TLV	Weight% (Optional)
2-Butoxy Ethanol *	111762	25PPM	25PPM	
Ammonia Hydroxide *	1336216	35PPM	35PPM	

Note: \* A SARA 313 Chemical

VOC Content- 42.8 g/L

Section 3 - Physical/Chemical Characteristics

Boiling Point- >212 F

Vapor Pressure - Not Tested

Vapor Density - Not Tested

pH- 9.0-10.5

Solubility In Water- 100%

Specific Gravity- 1.060

Appearance and Odor- GREEN/CITRUS ODOR

Melting Point - Not Tested

Evaporation Rate - Not Tested

Section 4 - Fire and Explosion Hazard Data

Flash Point- None

Flammable Limits - Not Tested

LEL- Not Tested

UEL- Not Tested

DOT# NONE

NFPA Hazard Rating - H F R S HMIS Hazard Rating - H F R  
(0- Least, 4- Extreme) 1 0 0 0 1 0 0

Extinguishing Media- CO2, DRY FOAM

Special Fire Fighting Procedures NONE

Unusual Fire and Explosion Hazards- NONE

Section 5 - Reactivity Data

Stability - Stable

Conditions to Avoid - None

Incompatible Materials to Avoid- Strong Oxidizers

Hazardous Decomposition or Byproducts- CO, CO2

Hazardous Polymerization- NONE

Conditions to Avoid- None

## Section 6 - Health Hazard Data

### Routes of Entry

Inhalation? - Possible

Skin? - Possible

Ingestion? - Possible

Health Hazards - Same as Signs and Symptoms of Exposures

Note - All Chemicals in this Product are Found on the TSCA Inventory List.

OSHA Carcinogenicity? - None; NTP? - None; IARC Monographs? - None.

# 070271; 070274

Signs and symptoms of over exposure:

Eyes - Burning Sensation

Skin- Slight Irritation

Ingestion-Nausea, Slight Irritation

Inhalation- Dizziness, Headaches

Medical Conditions Generally Aggravated by Exposure - Same as Signs and Symptoms of Over Exposure.

### Emergency and First Aid Procedures

Eyes - Flush With Water For 15 Minutes. If Irritation Persists, Call Physician.

Skin- Wash Off With Soap & Water, If Irritation Persists, Call Physician

Ingestion- Drink Large Amounts of Water, Call Physician

Inhalation- Get Person to Fresh Air If Unconscious, Call Physician

## Section 7 - Precautions For Safe Handling and Use.

Steps to be taken in case material is released or spilled - Contain with an inert, absorbent material. Collect in an approved container and place in a proper waste disposal container.

Waste Disposal Method - Dispose of in accordance with state and local regulations.

Precautions To Be Taken In Handling and Storing - Store in a cool, dry place, out of direct sunlight. Do not freeze, less than or equal to 32 F, or heat above 110 F.

Other Precautions - Keep out of reach of children. Follow directions on the container for proper use of this product.

## Section 8 - Control Measures

Respiratory Protection - Open all doors and windows. "If" there is an exposure, and it is above the TLV or PEL, a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CRF 1910.134, is required.

Ventilation	Local Exhaust - If Available	Special - None
	Mechanical - If Available	Other - None

Protective Gloves- Plastic or Rubber, Chemical Resistant

Eye Protection- Glasses, Goggles

Other Protective Clothing or Equipment- None

Hygienic Work Practices - Use common sense and care around chemicals. Never mix chemicals. Consult your supervisor for other practices. All practices depend on your specific business. Directions for use are normally found on label which will dictate engineering and control measures.

Other Special Requirements

Note: Waxie believes the data set forth are accurate, Waxie makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion



MSDS B9323

ITEM: 5W179 - Rust Preventative Spray Paint, Black, 15oz

DELIVERY: 6197883113

HU NUMBER: U847522113

## MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

## MATERIAL SAFETY DATA SHEET - B9323

ed Grainger Items

## MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE:  
1-847-367-7700  
RUST-OLEUM CORP.

WWW.RUSTOLEUM.COM

## -----SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION-----

PRODUCT NAME: ROHPER LSPR 6PK GLOSS HIGH TMP ALUMINUM

IDENTIFICATION NUMBER: V2116838

PRODUCT USE/CLASS: TOPCOAT/AEROSOL

SUPPLIER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USAMANUFACTURER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USA

PREPARER: REGULATORY DEPARTMENT

REVISION DATE: 12/08/2010

## -----SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS-----

CHEMICAL NAME	CAS NUMBER	WEIGHT % LESS THAN	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-CEILING	OSHA PEL
ACETONE	67-64-1	50.0 PPM	500	750	1000 PPM	N.E.
LIQUEFIED PETROLEUM GAS	68476-86-8	30.0	N.E.	N.E.	N.E.	N.E.
Xylene	1330-20-7	10.0 PPM	100	150	100 PPM	N.E.
SOLVENT NAPHTHA, LIGHT AROMATIC	64742-95-6	5.0	N.E.	N.E.	N.E.	N.E.
1,2,4-TRIMETHYLBENZENE	95-63-6	5.0 PPM	25	N.E.	N.E.	N.E.
MAGNESIUM SILICATE	14807-96-6	5.0 MG/M3	2	N.E. (RESPIRABLE)	0.1 MG/M3	N.E.
ETHYLBENZENE	100-41-4	5.0 PPM	100	125	100 PPM	N.E.
ALUMINUM FLAKE	7429-90-5	5.0 MG/M3	1	N.E. (RESPIRABLE)	5 MG/M3	N.E.
1,3,5-TRIMETHYLBENZENE	108-67-8	5.0 PPM	25	N.E.	N.E.	N.E.

## -----SECTION 3 - HAZARDS IDENTIFICATION-----

EMERGENCY OVERVIEW:  
CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. HARMFUL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:  
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION.EFFECTS OF OVEREXPOSURE - INHALATION:  
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.EFFECTS OF OVEREXPOSURE - INGESTION:  
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED.EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:  
IARC LISTS ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION) AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL SW179PRIMARY ROUTE(S) OF ENTRY:  
SKIN CONTACT, SKIN ABSORPTION, INHALATION, INGESTION, EYE CONTACT

## -----SECTION 4 - FIRST AID MEASURES-----

FIRST AID - EYE CONTACT:  
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. DO NOT ALLOW RUBBING OF EYES OR KEEPING EYES CLOSED.FIRST AID - SKIN CONTACT:  
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.FIRST AID - INHALATION:  
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE IMMEDIATELY.

FIRST AID - INGESTION:

ASPIRATION HAZARD:  
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL ATTENTION.

## -----SECTION 5 - FIRE FIGHTING MEASURES-----

FLASH POINT: -156 F (SETAFLASH)

EXTINGUISHING MEDIA:  
FILM FORMING FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOGUNUSUAL FIRE AND EXPLOSION HAZARDS:  
WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.

FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR!

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN.

SPECIAL FIREFIGHTING PROCEDURES:  
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## -----SECTION 6 - ACCIDENTAL RELEASE MEASURES-----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS.

## -----SECTION 7 - HANDLING AND STORAGE-----

HANDLING:  
WASH THOROUGHLY AFTER HANDLING. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. AVOID BREATHING VAPOR OR MIST. USE ONLY IN A WELL-VENTILATED AREA. WASH HANDS BEFORE EATING.STORAGE:  
KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F.

## -----SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION-----

ENGINEERING CONTROLS:  
PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.RESPIRATORY PROTECTION:  
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR IN ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

SKIN PROTECTION:  
USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN. NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION.EYE PROTECTION:  
USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.OTHER PROTECTIVE EQUIPMENT:  
REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.HYGIENIC PRACTICES:  
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

-----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

VAPOR DENSITY: HEAVIER THAN AIR

ODOR: SOLVENT LIKE

APPEARANCE: AEROSOLIZED MIST

EVAPORATION RATE: FASTER THAN ETHER

SOLUBILITY IN H<sub>2</sub>O: SLIGHT

FREEZE POINT: N.D.

SPECIFIC GRAVITY: 0.751

pH: N.A.

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

-----SECTION 10 - STABILITY AND REACTIVITY -----

CONDITIONS TO AVOID:  
AVOID TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION. FLAMMABLE HYDROGEN GAS WILL EVOLVE WHEN PRODUCT COMES IN CONTACT WITH WATER OR DAMP AIR. HEAT WILL BE GENERATED. THE AMOUNT OF HEAT GENERATED WILL DEPEND UPON THE VOLUME OF MATERIAL IN CONTACT.

INCOMPATIBILITY:  
INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

HAZARDOUS DECOMPOSITION:  
WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

-----SECTION 11 - TOXICOLOGICAL INFORMATION -----

CHEMICAL NAME	LD50	LC50
ACETONE	5800 MG/KG (RAT)	50100 MG/M3 (RAT, 8HR)
LIQUEFIED PETROLEUM GAS	N.E.	N.E.
XYLENE	4300 MG/KG (RAT, ORAL)	5000 PPM (RAT, INHALATION, 4HR)
SOLVENT NAPHTHA, LIGHT AROMATIC	4700 MG/KG (RAT, ORAL)	3670 MG/KG (RAT, INHALATION)
1,2-DIMETHYLBENZENE	N.E.	18000 MG/M3 (RAT, 4HR)
MAGNESIUM SILICATE	N.E.	TCLO: 11 MG/M3 (INHALATION)
ETHYLBENZENE	3500 MG/KG (RAT, ORAL)	N.E.
ALUMINUM FLAKE	N.E.	N.E.
1,3,5-TRIMETHYLBENZENE	1303 MG/KG (RAT, ORAL)	24 MG/M3 (RAT, 4HR)

-----SECTION 12 - ECOLOGICAL INFORMATION -----

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

-----SECTION 13 - DISPOSAL INFORMATION -----

DISPOSAL INFORMATION:  
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

-----SECTION 14 - TRANSPORTATION INFORMATION -----

	DOMESTIC (USDOT)	INTERNATIONAL (IMDG)	AIR (IATA)
PROPER SHIPPING NAME	CONSUMER COMMODITY	AEROSOLS	AEROSOLS
HAZARD CLASS	ORM-D	2.1	2.1
UN NUMBER	N.A.	UN1950	UN1950
PACKING GROUP	N.A.	N.A.	N.A.
LIMITED QUANTITY	NO	YES	YES

-----SECTION 15 - REGULATORY INFORMATION -----

CERCLA - SARA HAZARD CATEGORY:

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PRESENTED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:  
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART

372:

CHEMICAL NAME	CAS NUMBER
XYLENE	1330-20-7
1,2,4-TRIMETHYLBENZENE	95-63-6
ETHYLBENZENE	100-41-4
ALUMINUM FLAKE	7429-90-5

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW:  
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT. NONE

PENNSYLVANIA RIGHT-TO-KNOW:  
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%. NONE

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS:  
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5 D2A D2B

-----SECTION 16 - OTHER INFORMATION -----

NFPA RATINGS:  
HEALTH 2  
FLAMMABILITY 4  
INSTABILITY 0

VOLATILE ORGANIC COMPOUNDS, G/L: 580

REASON FOR REVISION: REGULATORY UPDATE

LEGEND:  
N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

RUST-OLEUM CORPORATION BELIEVES, TO THE BEST OF ITS KNOWLEDGE, INFORMATION AND BELIEF, THE INFORMATION CONTAINED HEREIN TO BE ACCURATE AND RELIABLE AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, BECAUSE THE CONDITIONS OF HANDLING, USE, AND STORAGE OF THESE MATERIALS ARE BEYOND OUR CONTROL, WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE INCURRED BY THE USE OF THESE MATERIALS. RUST-OLEUM CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OR RELIABILITY OF THE DATA OR RESULTS OBTAINED FROM THEIR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE INFORMATION AND RECOMMENDATIONS IN THIS MATERIAL SAFETY DATA SHEET ARE OFFERED FOR THE USERS' CONSIDERATION AND EXAMINATION. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE FINAL SUITABILITY OF THIS INFORMATION AND TO COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.



MSDS C1289

ITEM: 5H905 - Spray Paint, Dark Machine Gray, 15 oz.

DELIVERY: 6197883113

HU NUMBER: U847522113

## MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

## MATERIAL SAFETY DATA SHEET - C1289

Associated Grainger Items  
5H

## MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE:  
1-847-367-7700  
RUST-OLEUM CORP.

WWW.RUSTOLEUM.COM

## -----SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION-----

PRODUCT NAME: ROHPER LSPR 6PK GLOSS DARK MACHINE GRAY

IDENTIFICATION NUMBER: V2187838

PRODUCT USE/CLASS: TOPCOAT/AEROSOLS

SUPPLIER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USAMANUFACTURER:  
RUST-OLEUM CORPORATION  
11 HAWTHORN PARKWAY  
VERNON HILLS, IL 60061  
USA

PREPARER: REGULATORY DEPARTMENT

REVISION DATE: 12/16/2010

## -----SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS-----

CHEMICAL NAME	CAS NUMBER	WEIGHT %	ACGIH TLV-LESS	ACGIH TLV-TWA	OSHA PEL-TWA	OSHA PEL
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LIQUEFIED PETROLEUM GAS	68476-86-8	30.0	N.E.	N.E.	N.E.	N.E.
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ACETONE	67-64-1	25.0	500 PPM	750 PPM	1000 PPM	N.E.
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ALUMINUM PROPRIETARY	20.0	N.E.	N.E.	N.E.	N.E.	N.E.
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n-BUTYL ACETATE	123-86-4	15.0	150 PPM	200 PPM	150 PPM	N.E.
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XYLENE	1330-20-7	10.0	100 PPM	150 PPM	100 PPM	N.E.
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TITANIUM DIOXIDE	13463-67-7	5.0	10 MG/M3 (TOTAL DUST)	N.E.	15 MG/M3	N.E.
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ETHYL-BENZENE	100-41-4	5.0	100 PPM	125 PPM	100 PPM	N.E.
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PROPYLENE GLYCOL MONOBUTYL ETHER	5131-66-8	5.0	N.E.	N.E.	N.E.	N.E.
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CARBON BLACK	1333-86-4	1.0	3.5	N.E.	3.5 MG/M3	N.E.
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## -----SECTION 3 - HAZARDS IDENTIFICATION-----

EMERGENCY OVERVIEW:  
CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR EXPLOSION. HARMFUL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:  
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION.EFFECTS OF OVEREXPOSURE - INHALATION:  
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.EFFECTS OF OVEREXPOSURE - INGESTION:  
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE MAY BE HARMFUL IF SWALLOWED.EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:  
IF CONTAINS ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). CONTAINS TITANIUM DIOXIDE. TITANIUM DIOXIDE IS LISTED AS A GROUP 2B "POSSIBLY CARCINOGENIC TO HUMANS" BY IARC. SIGNIFICANT EXPOSURE IS NOT ANTICIPATED DURING BRUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF SURFACES OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF TITANIUM DIOXIDE IN THE FORMULA.

MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION) AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL 5H905

CONTAINS CARBON BLACK. CHRONIC INFLAMMATION, LUNG FIBROSIS, AND LUNG TUMORS HAVE BEEN OBSERVED IN SOME RATS EXPERIMENTALLY EXPOSED FOR LONG PERIODS OF TIME TO EXCESSIVE CONCENTRATIONS OF CARBON BLACK AND SEVERAL INSOLUBLE FINE DUST PARTICLES. TUMORS HAVE NOT BEEN OBSERVED IN OTHER ANIMAL SPECIES (I.E., MOUSE AND HAMSTER) UNDER SIMILAR CIRCUMSTANCES AND STUDY CONDITIONS. EPIDEMIOLOGICAL STUDIES OF NORTH AMERICAN WORKERS SHOW NO EVIDENCE OF CLINICALLY SIGNIFICANT ADVERSE HEALTH EFFECTS DUE TO OCCUPATIONAL EXPOSURE TO CARBON BLACK.

CARBON BLACK IS LISTED AS A GROUP 2B-"POSSIBLY CARCINOGENIC TO HUMANS" BY IARC AND IS PROPOSED TO BE LISTED AS A4-"NOT CLASSIFIED AS A HUMAN CARCINOGEN" BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS. SIGNIFICANT EXPOSURE IS NOT ANTICIPATED DURING BRUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF SURFACES OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF CARBON BLACK IN THE FORMULA.

PRIMARY ROUTE(S) OF ENTRY:  
SKIN CONTACT, SKIN ABSORPTION, INHALATION, INGESTION, EYE CONTACT

## -----SECTION 4 - FIRST AID MEASURES-----

FIRST AID - EYE CONTACT:  
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION. DO NOT ALLOW RUBBING OF EYES OR KEEPING EYES CLOSED.FIRST AID - SKIN CONTACT:  
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.FIRST AID - INHALATION:  
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE IMMEDIATELY.

FIRST AID - INGESTION:

ASPIRATION HAZARD:  
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL ATTENTION.

## -----SECTION 5 - FIRE FIGHTING MEASURES-----

FLASH POINT: -156 F (SETAFLASH)

EXTINGUISHING MEDIA:  
FILM FORMING FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR!

PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. KEEP CONTAINERS TIGHTLY CLOSED. WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.

SPECIAL FIREFIGHTING PROCEDURES:  
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## -----SECTION 6 - ACCIDENTAL RELEASE MEASURES-----

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. REMOVE ALL SOURCES OF IGNITION. VENTILATE AREA AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING TOOLS. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

## -----SECTION 7 - HANDLING AND STORAGE-----

HANDLING:  
FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. USE ONLY IN A WELL-VENTILATED AREA. AVOID BREATHING VAPOR OR MIST. WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE EATING.STORAGE:  
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F. KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.

## -----SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION-----

ENGINEERING CONTROLS:  
PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. USE EXPLOSION-PROOF VENTILATION EQUIPMENT. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.RESPIRATORY PROTECTION:  
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A

POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR IN ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

**SKIN PROTECTION:**  
NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN.

**EYE PROTECTION:**  
USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

**OTHER PROTECTIVE EQUIPMENT:**  
REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

**HYGIENIC PRACTICES:**  
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

#### -----SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES -----

VAPOR DENSITY: HEAVIER THAN AIR

ODOR: SOLVENT LIKE

APPEARANCE: AEROSOLIZED MIST

EVAPORATION RATE: FASTER THAN ETHER

SOLUBILITY IN H<sub>2</sub>O: SLIGHT

FREEZE POINT: N.D.

SPECIFIC GRAVITY: 0.813

pH: N.A.

PHYSICAL STATE: LIQUID

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

#### -----SECTION 10 - STABILITY AND REACTIVITY -----

**CONDITIONS TO AVOID:**  
AVOID TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

**INCOMPATIBILITY:**  
INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

**HAZARDOUS DECOMPOSITION:**  
BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE. WHEN HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR UNDER NORMAL CONDITIONS.

**STABILITY:** THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

#### -----SECTION 11 - TOXICOLOGICAL INFORMATION -----

CHEMICAL NAME	LD50	LC50
LIQUEFIED PETROLEUM GAS	N.E.	N.E.
ACETONE	5800 MG/KG (RAT)	50100 MG/M3 (RAT, 8HR)
ALKYD RESIN	N.E.	N.E.
n-BUTYL ACETATE	13100 MG/KG (RAT, ORAL)	2000 PPM (RAT, INHALATION, 4 HR)
XYLENE	4300 MG/KG (RAT, ORAL)	5000 PPM (RAT, INHALATION, 4HR)
TITANIUM DIOXIDE	>7500 MG/KG (RAT, ORAL)	N.E.
ETHYLBENZENE	3500 MG/KG (RAT, ORAL)	N.E.
PROPYLENE GLYCOL MONOBUTYL ETHER	2200 MG/KG (RAT, ORAL)	N.E.
CARBON BLACK	>8000 MG/KG (RAT, ORAL)	N.E.

#### -----SECTION 12 - ECOLOGICAL INFORMATION -----

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

#### -----SECTION 13 - DISPOSAL INFORMATION -----

**DISPOSAL INFORMATION:**  
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

#### -----SECTION 14 - TRANSPORTATION INFORMATION -----

DOMESTIC (USDOT) INTERNATIONAL (IMDG) AIR (IATA)

PROPER SHIPPING NAME	CONSUMER COMMODITY	AEROSOLS	AEROSOLS
Hazard Class	ORM-D	2.1	2.1
UN NUMBER	N.A.	UN1950	UN1950
PACKING GROUP	N.A.	N.A.	N.A.
LIMITED QUANTITY	NO	YES	YES

#### -----SECTION 15 - REGULATORY INFORMATION -----

CERCLA - SARA HAZARD CATEGORY:

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:  
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
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XYLENE	1330-20-7
--------	-----------

ETHYLBENZENE	100-41-4
--------------	----------

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

U.S. STATE REGULATIONS: AS FOLLOWS

**NEW JERSEY RIGHT-TO-KNOW:**  
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

NONE

**PENNSYLVANIA RIGHT-TO-KNOW:**  
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%.

CHEMICAL NAME	CAS NUMBER
---------------	------------

BARIUM SULFATE	7727-43-7
----------------	-----------

INTERNATIONAL REGULATIONS: AS FOLLOWS

**CANADIAN WHMIS:**  
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

**CANADIAN WHMIS CLASS:**

AB5  
D2A  
D2B

#### -----SECTION 16 - OTHER INFORMATION -----

**NFPA RATINGS:**  
HEALTH 2  
FLAMMABILITY 4  
INSTABILITY 0

VOLATILE ORGANIC COMPOUNDS, G/L: 537

REASON FOR REVISION: REGULATORY UPDATE

**LEGEND:**  
N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

RUST-OLEUM CORPORATION BELIEVES, TO THE BEST OF ITS KNOWLEDGE, INFORMATION AND BELIEF, THE INFORMATION CONTAINED HEREIN TO BE ACCURATE AND RELIABLE AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, BECAUSE THE CONDITIONS OF HANDLING, USE, AND STORAGE OF THESE MATERIALS ARE BEYOND OUR CONTROL, WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE INCURRED BY THE USE OF THESE MATERIALS. RUST-OLEUM CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OR RELIABILITY OF THE DATA OR RESULTS OBTAINED FROM THEIR USE. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE INFORMATION AND RECOMMENDATIONS IN THIS MATERIAL SAFETY DATA SHEET ARE OFFERED FOR THE USERS' CONSIDERATION AND EXAMINATION. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE FINAL SUITABILITY OF THIS INFORMATION AND TO COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

## ITEM: 2FP66 - Spray Paint Flat Black 15 Oz

SDS: B0784

ORDER: 0090568144

LP NUMBER: U844602725

## MATERIAL SAFETY DATA SHEET (MSDS)

**This MSDS should be attached or kept with the respective product with which it is associated.**

ERIAL SAFETY DATA SHEET - B0784

ociated Grainger Items  
97, 5W157, 1CC89, 4TH63, 5W152, 5H901, 5W160, 4TH66, 2FP63, 5W151, 5H905  
68, 4CH76, 5W158, 4TH64, 5W156, 2FP65, 5W172, 5W173, 4TH68, 5W171, 5U708  
73, 2FP64, 5W155, 4TH62, 5W163, 2FP66, 5W164, 5W165, 5U707

ERIAL SAFETY DATA SHEET

HOOR ASSISTANCE:  
47-367-7700  
T-OLEUM CORP.

.RUSTOLEUM.COM

## SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION

DUCT NAME: ROHPER LSPR 6PK FLAT WHITE

NTIFICATION NUMBER: V2190838

ISION DATE: 12/16/2010

DUCT USE/CLASS: TOPCOAT/AEROSOLS

PLIER:  
T-OLEUM CORPORATION  
HAWTHORN PARKWAY  
NON HILLS, IL 60061

UFACTURER:  
T-OLEUM CORPORATION  
HAWTHORN PARKWAY  
NON HILLS, IL 60061

PARER: REGULATORY DEPARTMENT

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

MICAL NAME	CAS NUMBER	WEIGHT % LESS THAN
UEFIED PETROLEUM GAS	68476-86-8	25.0
TONE	67-64-1	25.0
ANIUM DIOXIDE	13463-67-7	10.0
YD RESIN	PROPRIETARY	10.0
NESIUM SILICATE	14807-96-6	10.0
UTYL ACETATE	123-86-4	5.0
ERAL SPIRITS	64742-88-7	5.0
UENE	108-88-3	5.0
ENE	1330-20-7	5.0
VENT NAPTHA, LIGHT AROMATIC	64742-95-6	5.0
,4-TRIMETHYLBENZENE	95-63-6	5.0
CINED ALUMINUM SILICATE	1332-58-7	5.0
YLBENZENE	100-41-4	1.0

MICAL NAME	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL CEILING
UEFIED PETROLEUM GAS N.E.	N.E.	N.E.	N.E.	
TONE	500 PPM	750 PPM	1000 PPM	N.E.
ANIUM DIOXIDE	10 MG/M3	N.E.	15 MG/M3 (TOTAL DUST)	N.E.
YD RESIN	N.E.	N.E.	N.E.	N.E.
NESIUM SILICATE	2 MG/M3	N.E.	0.1 MG/M3 (RESPIRABLE)	N.E.
UTYL ACETATE	150 PPM	200 PPM	150 PPM	N.E.
ERAL SPIRITS	100 PPM	N.E.	100 PPM	N.E.
UENE	20 PPM	N.E.	200 PPM	300 PPM
ENE	100 PPM	150 PPM	100 PPM	N.E.
VENT NAPTHA, LIGHT MATIC	N.E.	N.E.	N.E.	N.E.
,4-TRIMETHYLBENZENE	25 PPM	N.E.	N.E.	N.E.
CINED ALUMINUM SILICATE	2 MG/M3	N.E.	5 MG/M3 (RESPIRABLE)	N.E.
YLBENZENE	100 PPM	125 PPM	100 PPM	N.E.

## SECTION 3 - HAZARDS IDENTIFICATION

RGENCY OVERVIEW:  
TENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR

NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE  
FLASH FIRE OR EXPLOSION. HARMFUL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID  
AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:  
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY  
CAUSE SLIGHT SKIN IRRITATION.

EFFECTS OF OVEREXPOSURE - INHALATION:  
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND  
LUNGS.

AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST  
CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.

EFFECTS OF OVEREXPOSURE - INGESTION:  
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE.  
SUBSTANCE MAY BE HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:  
CONTAINS TITANIUM DIOXIDE. TITANIUM DIOXIDE IS LISTED AS A GROUP  
2B-"POSSIBLY CARCINOGENIC TO HUMANS" BY IARC. SIGNIFICANT EXPOSURE IS NOT  
ANTICIPATED DURING BRUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE  
DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF  
SURFACES OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF TITANIUM DIOXIDE IN  
THE FORMULA.

MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS  
OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION)  
AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL  
OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.  
OVEREXPOSURE TO XYLENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER  
ABNORMALITIES, KIDNEY, LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS  
REPRODUCTIVE DISORDERS. EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE,  
HAVE INCLUDED LIVER, CARDIAC ABNORMALITIES AND NERVOUS SYSTEM DAMAGE.

PRIMARY ROUTE(S) OF ENTRY:  
SKIN CONTACT, SKIN ABSORPTION, INHALATION, INGESTION, EYE CONTACT

## SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT:  
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING  
EYELIDS OPEN. GET MEDICAL ATTENTION. DO NOT ALLOW RUBBING OF EYES OR  
KEEPING EYES CLOSED.

FIRST AID - SKIN CONTACT:  
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR  
PERSISTS.

FIRST AID - INHALATION:  
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH  
AIR.

IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE IMMEDIATELY.

FIRST AID - INGESTION:

ASPIRATION HAZARD:  
DO NOT INDUCE VOMITTING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN  
ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL  
ATTENTION.

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: -156 F (SETAFLASH)

EXTINGUISHING MEDIA:  
FILM FORMING FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:

FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR!

PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN.  
ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME. KEEP  
CONTAINERS TIGHTLY CLOSED. WATER SPRAY MAY BE INEFFECTIVE. CLOSED  
CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. VAPORS MAY FORM  
EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND  
FLASH BACK.

SPECIAL FIREFIGHTING PROCEDURES:  
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS  
SUCH AS SAWDUST. REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE  
WITH INERT ABSORBENT AND NON-SPARKING TOOLS. DISPOSE OF ACCORDING TO LOCAL,  
STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED  
CONTAINERS.

## SECTION 7 - HANDLING AND STORAGE

HANDLING:  
FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE  
IT MAY RETAIN PRODUCT RESIDUES. USE ONLY IN A WELL-VENTILATED AREA. AVOID  
BREATHING VAPOR OR MIST. WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE  
EATING.

STORAGE:  
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED  
AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. CONTENTS UNDER  
PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F. KEEP CONTAINERS

TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN ME.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:  
VENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE  
SS-VENTILATION. USE EXPLOSION-PROOF VENTILATION EQUIPMENT. USE PROCESS  
LOSS LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO  
TROPIC LEVELS BELOW RECOMMENDED EXPOSURE LIMITS.

RESPIRATORY PROTECTION:  
RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2  
REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A  
RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN  
ANALYTIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN  
CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE  
LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE  
PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN  
UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR IN ANY OTHER  
CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE  
PROTECTION.

SKIN PROTECTION:  
GLOVES OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE  
IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL  
THROUGH THE SKIN.

PROTECTION:  
SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

OTHER PROTECTIVE EQUIPMENT:  
REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION  
REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

HYGIENIC PRACTICES:  
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

RELATIVE DENSITY: HEAVIER THAN AIR

APPEARANCE: AEROSOLIZED MIST

SOLUBILITY IN H<sub>2</sub>O: SLIGHT

SPECIFIC GRAVITY: 0.873

PHYSICAL STATE: LIQUID

SMELL: SOLVENT LIKE

EVAPORATION RATE: FASTER THAN ETHER

FREEZE POINT: N.D.

N.A.

SEE SECTION 16 FOR ABBREVIATION LEGEND

## SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:  
HIGH TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF  
IGNITION.

COMPATIBILITY:  
COMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG  
ALKALIES.

HAZARDOUS DECOMPOSITION:  
OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE. WHEN HEATED TO  
DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

## SECTION 11 - TOXICOLOGICAL INFORMATION

CHEMICAL NAME	LD50	LC50
REFINED PETROLEUM GAS	N.E.	N.E.
BENZENE	5800 MG/KG (RAT)	50100 MG/M3 (RAT, 8HR)
ANILIN DIOXIDE	>7500 MG/KG (RAT, ORAL)	N.E.
XYLID RESIN	N.E.	N.E.
SILICUM SILICATE	N.E.	TCLO: 11 MG/M3 (INHALATION)
ETHYL ACETATE	13100 MG/KG (RAT, ORAL)	2000 PPM (RAT, INHALATION, 4HR)
ETHYL SPIRITS	>5000 MG/KG (RAT, ORAL)	>1400 PPM (RAT, INHALATION, 4HR)
BENZENE	636 MG/KG (RAT, ORAL)	>26700 PPM (RAT, INHALATION, 1HR)
BENZENE	4300 MG/KG (RAT, ORAL)	5000 PPM (RAT, INHALATION, 4HR)
VENTILATION, LIGHT	4700 MG/KG (RAT, ORAL)	3670 MG/KG (RAT, INHALATION)
1,4-TRIMETHYLBENZENE	N.E.	18000 MG/M3 (RAT, 4HR)
CINERD ALUMINUM OXYDATE	5000 MG/KG (RAT, ORAL)	N.E.
XYLBENZENE	3500 MG/KG (RAT, ORAL)	N.E.

ORAL)

## SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

## SECTION 13 - DISPOSAL INFORMATION

DISPOSAL INFORMATION:  
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS  
AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

## SECTION 14 - TRANSPORTATION INFORMATION

	DOMESTIC (US DOT)	INTERNATIONAL (IMDG)	AIR (IATA)
PROPER SHIPPING NAME	CONSUMER COMMODITY	AEROSOLS	AEROSOLS
HAZARD CLASS	ORM-D	2.1	2.1
UN NUMBER	N.A.	UN1950	UN1950
PACKING GROUP	N.A.	N.A.	N.A.
LIMITED QUANTITY	NO	YES	YES

## SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES"  
PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND  
REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER  
APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:  
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED  
GAS HAZARD

SARA SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE  
SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE  
SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
TOLUENE	108-88-3
XYLENE	1330-20-7
1,2,4-TRIMETHYLBENZENE	95-63-6

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE  
SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE  
UNITED STATES:

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:  
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE  
COMPONENTS IN THIS PRODUCT.

CHEMICAL NAME	CAS NUMBER
LIMESTONE	1317-65-3

PENNSYLVANIA RIGHT-TO-KNOW:  
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT  
GREATER THAN 3%.

CHEMICAL NAME	CAS NUMBER
LIMESTONE	1317-65-3

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS:  
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT  
REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5 D2A D2B

## SECTION 16 - OTHER INFORMATION

NFPA RATINGS:

HEALTH 2  
FLAMMABILITY 4  
INSTABILITY 0

VOLATILE ORGANIC COMPOUNDS, G/L: 507

REASON FOR REVISION: REGULATORY UPDATE

LEGEND:

N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

RUST-OLEUM CORPORATION BELIEVES, TO THE BEST OF ITS KNOWLEDGE, INFORMATION  
AND BELIEF, THE INFORMATION CONTAINED HEREIN TO BE ACCURATE AND RELIABLE AS  
OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, BECAUSE THE  
CONDITIONS OF HANDLING, USE, AND STORAGE OF THESE MATERIALS ARE BEYOND OUR  
CONTROL, WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL INJURY OR  
PROPERTY DAMAGE INCURRED BY THE USE OF THESE MATERIALS. RUST-OLEUM  
CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY  
OR RELIABILITY OF THE DATA OR RESULTS OBTAINED FROM THEIR USE. ALL  
MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE  
INFORMATION AND RECOMMENDATIONS IN THIS MATERIAL SAFETY DATA SHEET ARE  
OFFERED FOR THE USERS' CONSIDERATION AND EXAMINATION. IT IS THE  
RESPONSIBILITY OF THE USER TO DETERMINE THE FINAL SUITABILITY OF THIS  
INFORMATION AND TO COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL,  
STATE, AND LOCAL LAWS AND REGULATIONS.



## ITEM: 2FP66 - Spray Paint Flat Black 15 Oz

SDS: C1287

ORDER: 0090568144

LP NUMBER: U844602725

## MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

ERIAL SAFETY DATA SHEET - C1287

Associated Grainger Items  
66

ERIAL SAFETY DATA SHEET

HOUR ASSISTANCE:  
47-367-7700  
T-OLEUM CORP.

.RUSTOLEUM.COM

## SECTION 1 - CHEMICAL PRODUCT/COMPANY INFORMATION

DUCT NAME: ROHPER LSPR 6PK FLAT BLACK

DUCTION DATE: 09/15/2010

NOTIFICATION NUMBER: V2178838

DUCT USE/CLASS: TOPCOAT/AEROSOLS

PLIER:  
T-OLEUM CORPORATION  
HAWTHORN PARKWAY  
NON HILLS, IL 60061UFACTURER:  
T-OLEUM CORPORATION  
HAWTHORN PARKWAY  
NON HILLS, IL 60061

PARER: REGULATORY DEPARTMENT

## SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

ICAL NAME	CAS NUMBER	WEIGHT % LESS THAN
REFINED PETROLEUM GAS	68476-86-8	30.0
TONE	67-64-1	25.0
NESIUM SILICATE	14807-96-6	15.0
YD RESIN	PROPRIETARY	15.0
UTYL ACETATE	123-86-4	10.0
UENE	108-88-3	5.0
ERIAL SPIRITS	64742-88-7	5.0
VENT NAPHTHA, LIGHT AROMATIC	64742-95-6	5.0
,4-TRIMETHYLBENZENE	95-63-6	5.0
ENE	1330-20-7	5.0
BON BLACK	1333-86-4	5.0
YLBENZENE	100-41-4	1.0

ICAL NAME	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL CEILING
REFINED PETROLEUM GAS	N.E.	N.E.	N.E.	N.E.
TONE	500 PPM	750 PPM	1000 PPM	N.E.
NESIUM SILICATE	2 MG/M3	N.E.	0.1 MG/M3 (RESPIRABLE)	N.E.
YD RESIN	N.E.	N.E.	N.E.	N.E.
UTYL ACETATE	150 PPM	200 PPM	150 PPM	N.E.
UENE	20 PPM	N.E.	200 PPM	300 PPM
ERIAL SPIRITS	100 PPM	N.E.	100 PPM	N.E.
VENT NAPHTHA, LIGHT MATIC	N.E.	N.E.	N.E.	N.E.
,4-TRIMETHYLBENZENE	25 PPM	N.E.	N.E.	N.E.
ENE	100 PPM	150 PPM	100 PPM	N.E.
BON BLACK	3.5 MG/M3	N.E.	3.5 MG/M3	N.E.
YLBENZENE	100 PPM	125 PPM	100 PPM	N.E.

## SECTION 3 - HAZARDS IDENTIFICATION

AGENCY OVERVIEW:  
 IDENTIFIED UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS  
 SYSTEM. CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR  
 LOSS OF CONSCIOUSNESS. HARMFUL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:  
Prolonged or repeated contact may cause skin irritation. Substance may cause  
irritation to the skin.

## EFFECTS OF OVEREXPOSURE - INHALATION:

HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND  
LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST  
CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.

## EFFECTS OF OVEREXPOSURE - INGESTION:

ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE  
MAY BE HARMFUL IF SWALLOWED.

## EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:

MAY CAUSE CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS  
OF COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION)  
AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL  
OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.  
OVEREXPOSURE TO XYLENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER  
ABNORMALITIES, KIDNEY, LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS  
REPRODUCTIVE DISORDERS. EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE, HAVE  
INCLUDED LIVER, CARDIAC ABNORMALITIES AND NERVOUS SYSTEM DAMAGE.CONTAINS CARBON BLACK. CHRONIC INFLAMMATION, LUNG FIBROSIS, AND LUNG TUMORS  
HAVE BEEN OBSERVED IN SOME RATS EXPERIMENTALLY EXPOSED FOR LONG PERIODS OF  
TIME TO EXCESSIVE CONCENTRATIONS OF CARBON BLACK AND SEVERAL INSOLUBLE FINE  
DUST PARTICLES. TUMORS HAVE NOT BEEN OBSERVED IN OTHER ANIMAL SPECIES (I.E.,  
MOUSE AND HAMSTER) UNDER SIMILAR CIRCUMSTANCES AND STUDY CONDITIONS.  
EPIDEMIOLOGICAL STUDIES OF NORTH AMERICAN WORKERS SHOW NO EVIDENCE OF  
CLINICALLY SIGNIFICANT ADVERSE HEALTH EFFECTS DUE TO OCCUPATIONAL EXPOSURE  
TO CARBON BLACK.CARBON BLACK IS LISTED AS A GROUP 2B-"POSSIBLY CARCINOGENIC TO HUMANS" BY  
IARC AND IS PROPOSED TO BE LISTED AS A4- "NOT CLASSIFIED AS A HUMAN  
CARCINOGEN" BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL  
HYGIENISTS. SIGNIFICANT EXPOSURE IS NOT ANTICIPATED DURING BRUSH APPLICATION  
OR DRYING. RISK OF OVEREXPOSURE DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO  
DUST FROM REPEATED SANDING OF SURFACES OR SPRAY MIST AND THE ACTUAL  
CONCENTRATION OF CARBON BLACK IN THE FORMULA.

## PRIMARY ROUTE(S) OF ENTRY:

SKIN CONTACT, SKIN ABSORPTION, INHALATION, INGESTION, EYE CONTACT

## SECTION 4 - FIRST AID MEASURES

## FIRST AID - EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING  
EYELIDS OPEN. GET MEDICAL ATTENTION. DO NOT ALLOW RUBBING OF EYES OR KEEPING  
EYES CLOSED.

## FIRST AID - SKIN CONTACT:

WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR  
PERSISTS.

## FIRST AID - INHALATION:

IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH  
AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE  
IMMEDIATELY.

## FIRST AID - INGESTION:

ASPIRATION HAZARD:  
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN  
ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL  
ATTENTION.

## SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: -156 F (SETAFLASH)

## EXTINGUISHING MEDIA:

FILM FORMING FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

## UNUSUAL FIRE AND EXPLOSION HAZARDS:

WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED  
TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN  
TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. FLASH POINT IS LESS THAN  
20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! KEEP CONTAINERS TIGHTLY  
CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.  
PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN.

## SPECIAL FIREFIGHTING PROCEDURES:

EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

## STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS  
SUCH AS SAWDUST. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND  
FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. REMOVE ALL SOURCES  
OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING  
TOOLS.

## SECTION 7 - HANDLING AND STORAGE

## HANDLING:

WASH THOROUGHLY AFTER HANDLING. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER  
CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. AVOID BREATHING  
VAPOR OR MIST. USE ONLY IN A WELL-VENTILATED AREA. WASH HANDS BEFORE EATING.

## STORAGE:

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT,  
SPARKS AND OPEN FLAME. DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES  
IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE  
LIQUIDS. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE  
120 DEG. F.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

## ENGINEERING CONTROLS:

PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE

SS-VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR  
ER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED  
SURE LIMITS. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

PIRATORY PROTECTION:  
ESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2  
UIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A  
PIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN  
ANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN  
UMS WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE  
ITS

TECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE  
SURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN  
ONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR IN ANY OTHER  
UMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE  
TECTION.

N PROTECTION:  
IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS  
ERIAL THROUGH THE SKIN. NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE  
N PROTECTION.

PROTECTION:  
SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

ER PROTECTIVE EQUIPMENT:  
ER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION  
ARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

ENIC PRACTICES:  
H THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

#### SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

OR DENSITY: HEAVIER THAN AIR

R: SOLVENT LIKE

EARANCE: AEROSOLIZED MIST

PORATION RATE: FASTER THAN ETHER

UBILITY IN H2O: MISCIBLE

EZE POINT: N.D.

CIFIC GRAVITY: 0.818

N.A.

SICAL STATE: LIQUID

E SECTION 16 FOR ABBREVIATION LEGEND)

#### SECTION 10 - STABILITY AND REACTIVITY

DITIONS TO AVOID:  
ID T MPTURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

OMPATIBILITY:  
OMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

ARDOUS DECOMPOSITION:  
N HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY  
N FLAME, CARBON MONOXIDE AND CARBON DIOXIDE.

ARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

BILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

#### SECTION 11 - TOXICOLOGICAL INFORMATION

MICAL NAME	LD50	LC50
UEFIED PETROLEUM GAS	N.E.	N.E.
IONE	5800 MG/KG (RAT)	50100 MG/M3 (RAT, 8HR)
NESIUM SILICATE	N.E.	TCLO: 11 MG/M3 (INHALATION)
YD RESIN	N.E.	N.E.
UTYL ACETATE	13100 MG/KG (RAT, ORAL)	2000 PPM (RAT, INHALATION, 4 HR)
UEENE	636 MG/KG (RAT, ORAL)	>26700 PPM (RAT, INHALATION, 1 HR)
ERAL SPIRITS	>5000 MG/KG (RAT, ORAL)	>1400 PPM (RAT, INHALATION, 4HR)
VENT NAPHTHA, LIGHT MATIC	4700 MG/KG (RAT, ORAL)	3670 MG/KG (RAT, INHALATION)
,4-TRIMETHYLBENZENE	N.E.	18000 MG/M3 (RAT, 4HR)
ENE	4300 MG/KG (RAT, ORAL)	5000 PPM (RAT, INHALATION, 4HR)
BON BLACK	>8000 MG/KG (RAT, ORAL)	N.E.
YLBENZENE	3500 MG/KG (RAT, ORAL)	N.E.

#### SECTION 12 - ECOLOGICAL INFORMATION

LOGI INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

#### SECTION 13 - DISPOSAL INFORMATION

POSAL INFORMATION:  
POSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS  
ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

#### SECTION 14 - TRANSPORTATION INFORMATION

	DOMESTIC (USDOT)	INTERNATIONAL (IMDG)	AIR (IATA)
PROPER SHIPPING NAME	CONSUMER COMMODITY	AEROSOLS	AEROSOLS
HAZARD CLASS	ORM-D	2.1	2.1
UN NUMBER	N.A.	UN1950	UN1950
PACKING GROUP	N.A.	N.A.	N.A.
LIMITED QUANTITY	NO	YES	YES

#### SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:  
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES"  
PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND  
REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER  
APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS  
HAZARD

SARA SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE  
SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE  
SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
TOLUENE	108-88-3
1,2,4-TRIMETHYLBENZENE	95-63-6
XYLENE	1330-20-7

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE  
SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE  
UNITED STATES:

U.S. STATE REGULATIONS: AS FOLLOWS

NEW JERSEY RIGHT-TO-KNOW:

THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE  
COMPONENTS IN THIS PRODUCT.: NONE

PENNSYLVANIA RIGHT-TO-KNOW:

THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT  
GREATER THAN 3%.: NONE

INTERNATIONAL REGULATIONS: AS FOLLOWS

CANADIAN WHMIS:  
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT  
REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS:  
AB5  
D2A  
D2B

#### SECTION 16 - OTHER INFORMATION

NFPA RATINGS:  
HEALTH 2  
FLAMMABILITY 4  
INSTABILITY 0

VOLATILE ORGANIC COMPOUNDS, G/L: 520

REASON FOR REVISION: REGULATORY UPDATE

LEGEND:  
N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

RUST-OLEUM CORPORATION BELIEVES, TO THE BEST OF ITS KNOWLEDGE, INFORMATION  
AND BELIEF, THE INFORMATION CONTAINED HEREIN TO BE ACCURATE AND RELIABLE AS  
OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, BECAUSE THE  
CONDITIONS OF HANDLING, USE, AND STORAGE OF THESE MATERIALS ARE BEYOND OUR  
CONTROL, WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL INJURY OR  
PROPERTY DAMAGE INCURRED BY THE USE OF THESE MATERIALS. RUST-OLEUM  
CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY  
OR RELIABILITY OF THE DATA OR RESULTS OBTAINED FROM THEIR USE. ALL MATERIALS  
MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE INFORMATION  
AND RECOMMENDATIONS IN THIS MATERIAL SAFETY DATA SHEET ARE OFFERED FOR THE  
USERS' CONSIDERATION AND EXAMINATION. IT IS THE RESPONSIBILITY OF THE USER  
TO DETERMINE THE FINAL SUITABILITY OF THIS INFORMATION AND TO COMPLY WITH  
ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE, AND LOCAL LAWS AND  
REGULATIONS.



ULTADOS OBTENIDOS POR SU USO. TODOS LOS MATERIALES PUEDEN PRESENTAR  
IGROS DESCONOCIDOS Y DEBEN USARSE CON PRECAUCIÓN. LA INFORMACIÓN Y LAS  
OMENDACIONES EN ESTA HOJA DE DATOS DE SEGURIDAD DE LOS MATERIALES SE  
ECEN A LOS USUARIOS DE CONSIDERACIÓN Y EXAMEN. ES LA RESPONSABILIDAD DEL  
ARIO A DETERMINAR LA OPORTUNIDAD FINAL DE ESTA INFORMACIÓN Y DATOS Y  
A CONFORMARSE CON TODO APLICABLE INTERNACIONAL, FEDERAL, EL ESTADO Y LAS  
ES Y LAS REGULACIONES LOCALES.

# ITEM: 2FP61 - Spray Paint Gloss Silver Aluminun

SDS: B9321

ORDER: 0090568144

LP NUMBER: U844602725

## MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

\*\*\*\*\*  
SERIAL SAFETY DATA SHEET - B9321

ociated Grainger Items  
88, 2FP61, 3UP87, 5W174, 5H896, 4CY48, 4CY49

SERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE:  
47-367-7700  
T-OLEUM CORP.

.RUSTOLEUM.COM

### SECTION 1 - CHEMICAL PRODUCT / COMPANY INFORMATION

DUCT NAME: ROHPER LSPR 6PK ENAMEL ANODIZ BRNZ 150Z

NOTIFICATION NUMBER: 209565

DUCT USE/CLASS: TOPCOAT/AEROSOL

EXPIRATION DATE: 09/15/2010

PLANT:  
T-OLEUM CORPORATION  
HAWTHORN PARKWAY  
NON HILLS, IL 60061

PREPARED BY: REGULATORY DEPARTMENT

MANUFACTURER:  
T-OLEUM CORPORATION  
HAWTHORN PARKWAY  
NON HILLS, IL 60061

### SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

INGREDIENT NAME	CAS NUMBER	WEIGHT % LESS THAN	ACGIH TLV-TWA	ACGIH TLV-STEL
TONE	67-64-1	30.0	500 PPM	750 PPM
REFINED PETROLEUM GAS	68476-86-8	25.0	N.E.	N.E.
YD RESIN	PROPRIETARY	15.0	N.E.	N.E.
UTYL ACETATE	123-86-4	10.0	150 PPM	200 PPM
ENE	1330-20-7	10.0	100 PPM	150 PPM
NESIUM SILICATE	14807-96-6	10.0	2 MG/M3	N.E.
YLBENZENE	100-41-4	5.0	100 PPM	125 PPM
ANIUM DIOXIDE	13463-67-7	5.0	10 MG/M3	N.E.
PYLENE GLYCOL OBUTYL ETHER	5131-66-8	5.0	N.E.	N.E.
MATIC PETROLEUM TILLATES	64742-94-5	5.0	N.E.	N.E.
BON BLACK	1333-86-4	1.0	3.5 MG/M3	N.E.

INGREDIENT NAME	OSHA PEL-TWA	OSHA PEL CEILING
TONE	1000 PPM	N.E.
REFINED PETROLEUM GAS	N.E.	N.E.
YD RESIN	N.E.	N.E.
UTYL ACETATE	150 PPM	N.E.
ENE	100 PPM	N.E.
NESIUM SILICATE	0.1 MG/M3 (RESPIRABLE)	N.E.
YLBENZENE	100 PPM	N.E.
ANIUM DIOXIDE	15 MG/M3 (TOTAL DUST)	N.E.
PYLENE GLYCOL OBUTYL ETHER	N.E.	N.E.
MATIC PETROLEUM TILLATES	N.E.	N.E.
BON BLACK	3.5 MG/M3	N.E.

### SECTION 3 - HAZARDS IDENTIFICATION

HAZARD IDENTIFICATION:  
HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS  
SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR  
EXPLOSION. HARMFUL IF SWALLOWED. EXTREMELY FLAMMABLE LIQUID AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:  
Prolonged or repeated contact may cause skin irritation. Substance may cause  
skin irritation.

EFFECTS OF OVEREXPOSURE - INHALATION:  
High vapor concentrations are irritating to the eyes, nose, throat and

LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST  
CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.

EFFECTS OF OVEREXPOSURE - INGESTION:  
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE  
MAY BE HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:  
CONTAINS TITANIUM DIOXIDE. TITANIUM DIOXIDE IS LISTED AS A GROUP  
2B-"POSSIBLY CARCINOGENIC TO HUMANS" BY IARC. SIGNIFICANT EXPOSURE IS NOT  
ANTICIPATED DURING BRUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE DEPENDS

ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF SURFACES  
OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF TITANIUM DIOXIDE IN THE  
FORMULA.

IARC LISTS ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). MAY CAUSE  
CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF  
COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION)  
AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL  
OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.  
OVEREXPOSURE TO XYLENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER  
ABNORMALITIES, KIDNEY, LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS  
REPRODUCTIVE DISORDERS. EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE, HAVE  
INCLUDED LIVER, CARDIAC ABNORMALITIES AND NERVOUS SYSTEM DAMAGE.

CONTAINS CARBON BLACK. CHRONIC INFLAMMATION, LUNG FIBROSIS, AND LUNG TUMORS  
HAVE BEEN OBSERVED IN SOME RATS EXPERIMENTALLY EXPOSED FOR LONG PERIODS OF  
TIME TO EXCESSIVE CONCENTRATIONS OF CARBON BLACK AND SEVERAL INSOLUBLE FINE  
DUST PARTICLES. TUMORS HAVE NOT BEEN OBSERVED IN OTHER ANIMAL SPECIES (I.E.,  
MOUSE AND HAMSTER) UNDER SIMILAR CIRCUMSTANCES AND STUDY CONDITIONS.  
EPIDEMIOLOGICAL STUDIES OF NORTH AMERICAN WORKERS SHOW NO EVIDENCE OF  
CLINICALLY SIGNIFICANT ADVERSE HEALTH EFFECTS DUE TO OCCUPATIONAL EXPOSURE  
TO CARBON BLACK.

CARBON BLACK IS LISTED AS A GROUP 2B-"POSSIBLY CARCINOGENIC TO HUMANS" BY  
IARC AND IS PROPOSED TO BE LISTED AS A4-"NOT CLASSIFIED AS A HUMAN  
CARCINOGEN" BY THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL  
HYGIENISTS. SIGNIFICANT EXPOSURE IS NOT ANTICIPATED DURING BRUSH APPLICATION  
OR DRYING. RISK OF OVEREXPOSURE DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO  
DUST FROM REPEATED SANDING OF SURFACES OR SPRAY MIST AND THE ACTUAL  
CONCENTRATION OF CARBON BLACK IN THE FORMULA.

PRIMARY ROUTE(S) OF ENTRY:  
SKIN CONTACT, SKIN ABSORPTION, INHALATION, INGESTION, EYE CONTACT

### SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT:  
IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES HOLDING  
EYELIDS OPEN. GET MEDICAL ATTENTION. DO NOT ALLOW RUBBING OF EYES OR KEEPING  
EYES CLOSED.

FIRST AID - SKIN CONTACT:  
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR  
PERSISTS.

FIRST AID - INHALATION:  
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH  
AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE  
IMMEDIATELY.

FIRST AID - INGESTION:

ASPIRATION HAZARD:  
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN  
ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL  
ATTENTION.

### SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: -156 F (SETAFLASH)

EXTINGUISHING MEDIA:  
FILM FORMING FOAM, CARBON DIOXIDE, DRY CHEMICAL, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED  
TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN  
TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK.

FLASH POINT IS LESS THAN 20 DEG. F.

EXTREMELY FLAMMABLE LIQUID AND VAPOR!

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT,  
SPARKS AND OPEN FLAME. PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE  
BURSTING OF THE CAN.

SPECIAL FIREFIGHTING PROCEDURES:  
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS  
SUCH AS SAWDUST. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND  
FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS. REMOVE ALL SOURCES  
OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT ABSORBENT AND NON-SPARKING  
TOOLS.

### SECTION 7 - HANDLING AND STORAGE

HANDLING:  
WASH THOROUGHLY AFTER HANDLING. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER  
CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. AVOID BREATHING  
VAPOR OR MIST. USE ONLY IN A WELL-VENTILATED AREA. WASH HANDS BEFORE EATING.

PAGE:

CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, OILS AND OPEN FLAME. DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS 1 FLAMMABLE LIQUIDS. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120 DEG. F.

## SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

**ENGINEERING CONTROLS:**  
VENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE CROSS-VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED EXPOSURE LIMITS. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

**RESPIRATORY PROTECTION:**  
RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR IN ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

**SKIN PROTECTION:**  
IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL THROUGH THE SKIN. NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION.

**PROTECTION:**  
SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

**OTHER PROTECTIVE EQUIPMENT:**  
REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

**HYGIENIC PRACTICES:**  
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

RELATIVE DENSITY: HEAVIER THAN AIR

APPEARANCE: AEROSOLIZED MIST

SOLUBILITY IN H<sub>2</sub>O: MISCIBLE

SPECIFIC GRAVITY: 0.808

PHYSICAL STATE: LIQUID

SMELL: SOLVENT LIKE

POROSITY RATE: FASTER THAN ETHER

FREEZING POINT: N.D.

N.A.

SEE SECTION 16 FOR ABBREVIATION LEGEND)

## SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:  
HIGH TEMPERATURES ABOVE 120 DEG. F. AVOID ALL POSSIBLE SOURCES OF IGNITION.

**COMPATIBILITY:**  
COMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

**HEAT-INDUCED DECOMPOSITION:**  
ON HEATING TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY PRODUCT FLAME, CARBON MONOXIDE AND CARBON DIOXIDE.

**HEAT-INDUCED POLYMERIZATION:** WILL NOT OCCUR UNDER NORMAL CONDITIONS.

**STABILITY:** THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

## SECTION 11 - TOXICOLOGICAL INFORMATION

SYMBOLIC NAME	LD50	LC50
ACETONE	5800 MG/KG (RAT)	50100 MG/M3 (RAT, 8 HR)
REFINED PETROLEUM	N.E.	N.E.
YD RESIN	N.E.	N.E.
ETHYL ACETATE	13100 MG/KG (RAT, ORAL)	2000 PPM (RAT, INHALATION, 4 HR)
HEXANE	4300 MG/KG (RAT, ORAL)	5000 PPM (RAT, INHALATION, 4 HR)
SILICUM SILICATE	N.E.	TCLO: 11 MG/M3 (INHALATION)
ETHYLBENZENE	3500 MG/KG (RAT, ORAL)	N.E.
DIETHYLAMINE DIOXIDE	>7500 MG/KG (RAT, ORAL)	N.E.
POLYETHYLENE GLYCOL BUTYL ETHER	2200 MG/KG (RAT, ORAL)	N.E.
METHYLBENZENE	4900 MG/KG (RAT, ORAL)	N.E.
BON BLACK	>8000 MG/KG (RAT, ORAL)	N.E.

## SECTION 12 - ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

## SECTION 13 - DISPOSAL INFORMATION

DISPOSAL INFORMATION:  
DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

## SECTION 14 - TRANSPORTATION INFORMATION

	DOMESTIC (US DOT)	INTERNATIONAL (IMDG)	AIR (IATA)
PROPER SHIPPING NAME	CONSUMER COMMODITY	AEROSOLS	AEROSOLS
HAZARD CLASS	ORM-D	2.1	2.1
UN NUMBER	N.A.	UN1950	UN1950
PACKING GROUP	N.A.	N.A.	N.A.
LIMITED QUANTITY	NO	YES	YES

## SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:  
IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

SARA SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
XYLENE	1330-20-7
ETHYLBENZENE	100-41-4
AROMATIC PETROLEUM DISTILLATES	64742-94-5

TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:  
THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE COMPONENTS IN THIS PRODUCT.

NONE

PENNSYLVANIA RIGHT-TO-KNOW:  
THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%.

NONE

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS:  
THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5 D2A D2B

## SECTION 16 - OTHER INFORMATION

NFPA RATINGS:

HEALTH 2  
FLAMMABILITY 4  
INSTABILITY 0

VOLATILE ORGANIC COMPOUNDS, G/L: 528

REASON FOR REVISION: REGULATORY UPDATE

LEGEND:

N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

RUST-OLEUM CORPORATION BELIEVES, TO THE BEST OF ITS KNOWLEDGE, INFORMATION AND BELIEF, THE INFORMATION CONTAINED HEREIN TO BE ACCURATE AND RELIABLE AS OF THE DATE OF THIS MATERIAL SAFETY DATA SHEET. HOWEVER, BECAUSE THE CONDITIONS OF HANDLING, USE, AND STORAGE OF THESE MATERIALS ARE BEYOND OUR CONTROL, WE ASSUME NO RESPONSIBILITY OR LIABILITY FOR PERSONAL INJURY OR PROPERTY DAMAGE INCURRED BY THE USE OF THESE MATERIALS. RUST-OLEUM CORPORATION MAKES NO WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OR RELIABILITY OF THE DATA OR RESULTS OBTAINED FROM THEIR USE. ALL MATERIALS

MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. THE INFORMATION

AND RECOMMENDATIONS IN THIS MATERIAL SAFETY DATA SHEET ARE OFFERED FOR THE USER'S CONSIDERATION AND EXAMINATION. IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE FINAL SUITABILITY OF THIS INFORMATION AND TO COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.

# ITEM: 2FP61 - Spray Paint Gloss Silver Aluminum

L2951

ORDER: 0090568144

LP NUMBER: U844602725

## MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

ERIAL SAFETY DATA SHEET - L2951

ociated Grainger Items  
88, 2FP61, 3UP87, 5W174, 5H896, 4CY48, 4CY49

ERIAL SAFETY DATA SHEET

HOOR ASSISTANCE: 1-847-367-7700

T-OLEUM CORP.

.RUSTOLEUM.COM

### SECTION 1 - CHEMICAL PRODUCT/COMPANY INFORMATION

DUCT NAME:  
T-OLEUM HIGH PERFORMANCE INDUSTRIAL ENAMEL AEROSOL - METALLICS (HARD HAT)

NTIFICATION NUMBER:  
565, 209719, 209750, 209751, 209752, V2115838, V2118838, V2119838

DUCT USE/CLASS: METALLIC/AEROSOL

PLIER:  
T-OLEUM CORPORATION  
HAWTHORN PARKWAY  
NON HILLS, IL 60061

UFACTURER:  
T-OLEUM CORPORATION  
HAWTHORN PARKWAY  
NON HILLS, IL 60061

PARER: REGULATORY DEPARTMENT

ISION DATE: 11/21/2006

### SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

MICAL NAME	CAS NUMBER	WEIGHT % LESS THAN	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA
JENE	108-88-3	35.0	50 PPM	150 PPM	200 PPM
JEFIED PETROLEUM	68476-86-8	35.0	1000 PPM	N.E.	1000 PPM
IONE	67-64-1	30.0	500 PPM	750 PPM	750 PPM
JTYL ACETATE	123-86-4	15.0	150 PPM	200 PPM	150 PPM
ENE	1330-20-7	10.0	100 PPM	150 PPM	100 PPM
EL FLAKE ALLOY	MIXTURE	10.0	N.E.	N.E.	N.E.
NESIUM SILICATE	14807-96-6	10.0	10 MG/M3	N.E.	15 MG/M3
MINUM FLAKE	7429-90-5	10.0	10 MG/M3	N.E.	15 MG/M3
DDARD SOLVENTS	8052-41-3	5.0	100 PPM	N.E.	500 PPM
VLBENZENE	100-41-4	5.0	100 PPM	125 PPM	100 PPM
YLENE GLYCOL OBUTYL ETHER	111-76-2	5.0	20 PPM	N.E.	50 PPM
PYLENE GLYCOL METHYL ETHER IATE	108-65-6	5.0	N.E.	N.E.	30 P.P.M. (SUPPLIER RECOMMENDATION)
ANIUM DIOXIDE	13463-67-7	5.0	10 MG/M3	N.E.	10 MG/M3

### SECTION 3 - HAZARDS IDENTIFICATION

RGENCY OVERVIEW:  
ITEMS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS  
TEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR  
LOSION. EXTREMELY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED.

ECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

ECTS OF OVEREXPOSURE - SKIN CONTACT:  
BE HARMFUL IF ABSORBED THROUGH SKIN. PROLONGED OR REPEATED CONTACT MAY  
SE SKIN IRRITATION. SUBSTANCE MAY CAUSE SLIGHT SKIN IRRITATION.

ECTS OF OVEREXPOSURE - INHALATION:  
H VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND  
3S. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST  
CENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.

ECTS OF OVEREXPOSURE - INGESTION:  
IRITATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE.  
STANCE MAY BE HARMFUL IF SWALLOWED.

ECTS OF OVEREXPOSURE - CHRONIC HAZARDS:  
C LISTS ETHYLENIBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). MAY CAUSE  
TRAI...VOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF  
RDI...), WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION)  
/OR...E. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL  
REXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.  
REXPOSURE TO XYLENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER  
ORMALITIES, KIDNEY, LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS  
RODUCTIVE DISORDERS. EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE, HAVE  
LUDED LIVER, CARDIAC ABNORMALITIES AND NERVOUS SYSTEM DAMAGE.  
REXPOSURE TO TOLUENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER  
ORMALITIES, KIDNEY, LUNG AND SPLEEN DAMAGE. EFFECTS IN HUMANS HAVE

INCLUDED LIVER AND CARDIAC ABNORMALITIES.

PRIMARY ROUTE(S) OF ENTRY:  
SKIN CONTACT, SKIN ABSORPTION, INHALATION, EYE CONTACT

### SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT:  
HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.  
GET MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT:  
WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR  
PERSISTS.

FIRST AID - INHALATION:  
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH  
AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE  
IMMEDIATELY.

FIRST AID - INGESTION:  
ASPIRATION HAZARD:  
DO NOT INDUCE VOMITING OR GIVE ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN  
ENTER THE LUNGS AND CAUSE SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL  
ATTENTION.

### SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: -156 F (SETAFLASH)

LOWER EXPLOSIVE LIMIT: 0.7%  
UPPER EXPLOSIVE LIMIT: 32.5%

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:  
PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN.  
WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED  
TO EXTREME HEAT. FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE  
LIQUID AND VAPOR! VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN  
TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. KEEP CONTAINERS TIGHTLY  
CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.

SPECIAL FIREFIGHTING PROCEDURES:  
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

### SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:  
REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT  
ABSORBENT AND NON-SPARKING TOOLS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH.  
DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. DISPOSE OF ACCORDING TO  
LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED  
CONTAINERS.

### SECTION 7 - HANDLING AND STORAGE

HANDLING:  
WASH HANDS BEFORE EATING. USE ONLY IN A WELL-VENTILATED AREA. WASH  
THOROUGHLY AFTER HANDLING. AVOID BREATHING VAPOR OR MIST. FOLLOW ALL  
MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN  
PRODUCT RESIDUES.

STORAGE:  
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED  
AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. KEEP CONTAINERS  
TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN  
FLAME. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120  
DEG. F.

### SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:  
PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND WINDOWS TO ACHIEVE  
CROSS-VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION, OR  
OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED  
EXPOSURE LIMITS. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

RESPIRATORY PROTECTION:  
A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR  
CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE  
AIRBORNE CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS.

PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE  
PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN  
UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER  
CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE  
PROTECTION. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND  
ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS  
WARRANT A RESPIRATOR'S USE.

SKIN PROTECTION:  
NITRILE OR NEOPRENE GLOVES MAY AFFORD ADEQUATE SKIN PROTECTION. USE  
IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND ABSORPTION OF THIS MATERIAL  
THROUGH THE SKIN.

EYE PROTECTION:  
USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF LIQUIDS.

OTHER PROTECTIVE EQUIPMENT:  
REFER TO SAFETY SUPERVISOR OR INDUSTRIAL HYGIENIST FOR FURTHER INFORMATION  
REGARDING PERSONAL PROTECTIVE EQUIPMENT AND ITS APPLICATION.

HYGIENIC PRACTICES:  
WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING OR SMOKING.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

LING RANGE: -34 - 900 F  
OR DENSITY: HEAVIER THAN AIR  
R: SOLVENT LIKE  
R THOLD: ND  
EARA LIQUID  
PORATION RATE: FASTER THAN ETHER  
UBILITY IN H2O: SLIGHT  
EZE POINT: ND  
CIFIC GRAVITY: 0.7520  
OR PRESSURE:  
NE  
SICAL STATE: LIQUID  
E SECTION 16 FOR ABBREVIATION LEGEND)

## SECTION 10 - STABILITY AND REACTIVITY

DITIONS TO AVOID:  
ID TEMPERATURES ABOVE 120 DEG. F. FLAMMABLE HYDROGEN GAS WILL EVOLVE WHEN  
DUCT COMES IN CONTACT WITH WATER OR DAMP AIR. HEAT WILL BE GENERATED. THE  
UNT OF HEAT GENERATED WILL DEPEND UPON THE VOLUME OF MATERIAL IN CONTACT.  
ID ALL POSSIBLE SOURCES OF IGNITION.

OMPATIBILITY:  
OMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS AND STRONG ALKALIES.

ARDOUS DECOMPOSITION:  
N HEATED TO DECOMPOSITION, IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY  
N FLAME, CARBON MONOXIDE AND CARBON DIOXIDE.

ARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

BILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

## SECTION 11 - TOXICOLOGICAL INFORMATION

DUCT LD50: ND  
DUCT LC50: ND

MICAL NAME	LD50	LC50
UENE	N.D.	N.D.
UEFIELD PETROLEUM GAS	N.D.	N.D.
TONI	N.D.	N.D.
JTYL ACETATE	13100 MG/KG (ORAL, RAT)	2000 PPM (INH 4 HR,
ENE	N.D.	N.D.
EL FLAKE ALLOY	N.D.	N.D.
NESIUM SILICATE	N.D.	TCLO: 11 MG/M3 INH.
MINUM FLAKE	N.D.	N.D.
DDARD SOLVENTS	N.D.	N.D.
YLBENZENE	3500 MG/KG (ORAL, RAT)	N.D.
VLENE GLYCOL MONOBUTYL	1519 MG/KG (ORAL, MOUSE)	700 PPM (INH 7 HR, RAT)
ER		
PYLENE GLYCOL	>10000 MG/KG (ORAL, RAT)	N.D.
OMETHYL ETHER ACETATE		
ANIUM DIOXIDE	>7500 MG/KG (ORAL, RAT)	N.D.

## SECTION 12 - ECOLOGICAL INFORMATION

LOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

## SECTION 13 - DISPOSAL INFORMATION

POSAL INFORMATION:  
POSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS  
ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR SEWER SYSTEMS.

## SECTION 14 - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: AEROSOL  
TECHNICAL NAME:  
HAZARD CLASS: 2.1  
UN/NA NUMBER: UN1950

KING GROUP:  
ARD SUBCLASS:  
P. GUIDE PAGE: 126

## SECTION 15 - REGULATORY INFORMATION

CLA RA HAZARD CATEGORY:  
S PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES"  
MULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND  
UTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER  
LICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:  
EDIMATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD

## SARA SECTION 313:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE  
SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE  
SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
TOLUENE	108-88-3
XYLENE	1330-20-7
STEEL FLAKE ALLOY	MIXTURE
ETHYLBENZENE	100-41-4
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2

## TOXIC SUBSTANCES CONTROL ACT:

LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE  
SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE  
UNITED STATES: NONE KNOWN

U.S. STATE REGULATIONS: AS FOLLOWS -

## NEW JERSEY RIGHT-TO-KNOW:

THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE  
COMPONENTS IN THIS PRODUCT.

CHEMICAL NAME	CAS NUMBER
C-9 HYDROCARBON RESIN UNSATURATED	71302-83-5

ALKYD RESIN MIXTURE

## PENNSYLVANIA RIGHT-TO-KNOW:

THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT  
GREATER THAN 3%.

CHEMICAL NAME	CAS NUMBER
C-9 HYDROCARBON RESIN UNSATURATED	71302-83-5

ALKYD RESIN MIXTURE

ACRYLIC RESIN PROPRIETARY

## CALIFORNIA PROPOSITION 65:

WARNING!  
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN BY THE STATE OF CALIFORNIA TO  
CAUSE CANCER.

WARNING!  
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO  
CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

## CANADIAN WHMIS:

THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED PRODUCT  
REGULATIONS EXCEPT FOR THE USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: AB5, D2A, D2B

## SECTION 16 - OTHER INFORMATION

## HMIS RATINGS:

HEALTH: 2  
FLAMMABILITY: 4  
REACTIVITY: 0  
PERSONAL PROTECTION: X

VOLATILE ORGANIC COMPOUNDS, G/L: 620 MAX

REASON FOR REVISION:

## LEGEND:

N.A. - NOT APPLICABLE  
N.E. - NOT ESTABLISHED  
N.D. - NOT DETERMINED

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE  
ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL  
FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.



MSDS: L2584

ITEM: 3KRV3 - Sealant Advanced Polymer Black 10.

ORDER: 0068022808

LP NUMBER: U246072902-A

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

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EYE: HOLD OPEN EYE AND FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. SEEK MEDICAL ATTENTION. 3KRV3

FRANKLIN INTERNATIONAL

SECTION 5 - FIRE-FIGHTING MEASURES

FLAMMABILITY CLASS (OSHA): IIIB

MSDS NAME: TITEBOND WEATHERMASTER BLACK 003

FLASH POINT: >200 F

METHOD: NOT AVAILABLE MSDS NUMBER: 44031

EXTINGUISHING MEDIA: WATER, WATER FOG, CO<sub>2</sub>, DRY CHEMICAL

EXTINGUISHING MEDIA:

WATER, WATER FOG, CO<sub>2</sub>, DRY CHEMICAL

OXIDES OF CARBON MAY BE RELEASED DURING COMBUSTION.

FUMES, SMOKE, CO AND CO<sub>2</sub> IN THE CASE OF INCOMPLETE COMBUSTION.

HYDROGEN CHLORIDE AT TEMPERATURES ABOVE 392 F (200 C).

HMS HAZARD RATING:

WEAR A NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

REACT

COMPANY IDENTIFICATION:

SECTION 6 - ACCIDENTAL RELEASE MEASURES

CONTAINMENT TECHNIQUES: USE SUITABLE ABSORBENT TO CONTAIN THE SPILL.

SPREAD ABSORBENT OVER MATERIAL AND SCRAPE UP MATERIAL/ABSORBENT AND PLACE IN AN APPROVED CONTAINER. IF PRODUCT HAS DRIED SCRAPE UP AND PLACE IN AN TELEPH

APPROVED CONTAINER. (614) 445-1493 (800) 8

SECTION 7 - HANDLING AND STORAGE

HANDLING:

DO NOT GET ON SKIN OR CLOTHING. IF ON SKIN, WASH IMMEDIATELY. (800) 424-9300

USE ONLY IN WELL VENTILATED AREA.

AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. (703) 527-3887

STORAGE: CLASS: ELASTOMERIC SEALANT

PRODUCT IS FREEZE THAW STABLE. STORE BETWEEN 41F (5C) AND 77F (25C).

KEEP CONTAINERS CLOSED WHEN NOT IN USE.

STORE IN A COOL, DRY PLACE.

PRODUCT CODE: NOT APPLICABLE

SECTION 8 - EXPOSURE/CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

ACGIH TLV

ACGIH TLV-C

ACGIH STEL

OSHA STEL

OSHA PEL

HAZARDOUS ING

ENGINEERING CONTROLS:

GOOD GENERAL VENTILATION IS REQUIRED TO MAINTAIN CONCENTRATIONS OF VAPOR BELOW LEVELS.

OTHER:

FACILITIES SERVING AS WHOLESALE DISTRIBUTORS SHOULD HAVE EYE WASH AND SHOWER AVAILABLE. EYE WASH FACILITY AND A SAFETY SHOWER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

RESPIRATORY PROTECTION IS NOT EXPECTED TO BE NECESSARY UNDER NORMAL USE.

FOLLOW REQUIREMENTS FOR RESPIRATORY PROTECTION IN OSHA 1910.134. EMERGEN

EXPOSURE/CONTROLS:

CHEMICAL SPLASHES CAN IRRITATE SKIN. IF CONTACT OCCURS, WASH IMMEDIATELY. CURING PASTE OF COLORS. SLIPPERY

SKIN PROTECTION:

WHERE REPEATED OR PROLONGED CONTACT CAN OCCUR, WEAR CHEMICAL RESISTANT GLOVES.

INHALATION: YES

SKIN: YES

EYE: YES

NO HAZARD EXPECTED FROM NORMAL USE.

APPEARANCE/COLOR: BLACK 003

ODOR: MILD

SOLUBILITY (IN WATER): INSOLUBLE

pH VALUE: NOT AVAILABLE

BOILING RANGE/POINT: NOT AVAILABLE

EXPOSURE RATE: SLOWER THAN n-BUTYL ACETATE

STABILITY: 0.0%

REDUCTIVE TOXICITY: NONE ANTICIPATED.

TOXICITY: EYES AND SKIN.

SECTION 4 - STABILITY AND REACTIVITY

STABILITY: THIS PRODUCT IS STABLE

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR

WATER OR DAMP AIR. PRODUCT CURE IN THE PRESENCE OF MOISTURE.

INCOMPATIBILITY: NONE KNOWN.

WASH WITH SOAP AND WATER. CONTACT A PHYSICIAN IF I

HAZARDOUS DECOMPOSITION PRODUCTS:



SECTION 11 - TOXICOLOGICAL INFORMATION

THIS FORMULATION HAS NOT BEEN TESTED FOR TOXICOLOGICAL EFFECTS.  
ACUTE AND CHRONIC HEALTH EFFECTS ARE NOT EXPECTED AS LONG AS GOOD  
INDUSTRIAL HYGEINE AND SAFETY PRECAUTIONS ARE FOLLOWED.

SECTION 12 - ECOLOGICAL INFORMATION

THIS FORMULATION HAS NOT BEEN TESTED FOR ENVIRONMENTAL EFFECTS.

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:  
DISPOSAL OF THIS PRODUCT MUST COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND  
LOCAL REGULATIONS.

CONTAINER DISPOSAL:  
DISPOSAL OF THIS CONTAINER SHOULD COMPLY WITH ALL APPLICABLE FEDERAL, STATE  
AND LOCAL REGULATIONS.

SECTION 14 - TRANSPORT INFORMATION

UN NUMBER: NONE  
UN PACK GROUP: N/A  
UN CLASS: NONHAZ  
ICAO/IATA CLASS: NONHAZARDOUS  
IMDG CLASS: NONHAZARDOUS  
SHIPPING NAME: NONHAZARDOUS

SECTION 15 - REGULATORY INFORMATION

TSCA (TOXIC SUBSTANCES CONTROL ACT INVENTORY):  
ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY EXCEPT AS  
EXEMPTED.

SECTION 16 - OTHER INFORMATION

DISCLAIMER:  
WHILE THE INFORMATION AND RECOMMENDATIONS SET FORTH HEREIN ARE BELIEVED TO  
BE ACCURATE AS OF THE DATA HEREOF, FRANKLIN INTERNATIONAL MAKES NO  
WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT THERETO AND DISCLAIMS ALL  
LIABILITY FROM RELIANCE THEREON.

ITEM: 4YP04 - Sealant Silicone Gray

3b4168T

ORDER: 0068022648

LP NUMBER: U840100863

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

OCTAMETHYLCYCLOTETRASILOXANE

#####

ANGESTIONd Grainger Items

RODENTS GIVEN LARGE DOSES VIA ORAL GAVAGE OF OCTAMETHYLCYCLOTETRASILOXANE (1600 MG/KG DAY, 14 DAYS) DEVELOPED INCREASED LIVER WEIGHTS RELATIVE TO UNEXPOSED CONTROL ANIMALS DUE TO HEPATOCELLULAR HYPERPLASIA (INCREASED GE NUMBER OF LIVER CELLS WHICH APPEARED NORMAL) AS WELL AS HYPERTROPHY (INCREASED CELL SIZE). GE SILICONES

FORMAT: U

INTERPRETATIONSAFETY DATA SHEET

IN INHALATION STUDIES, LABORATORY RODENTS EXPOSED TO OCTAMETHYLCYCLOTETRASILOXANE (300 PPM FIVE DAYS WEEK, ~~PERMANENTLY~~ ACETOXY SEAL INCREASED LIVER WEIGHTS IN FEMALE ANIMALS RELATIVE TO UNEXPOSED CONTROL ANIMALS. WHEN THE EXPOSURE WAS STOPPED, LIVER WEIGHTS RETURNED TO NORMAL. MICROSCOPIC EXAMINATION OF THE LIVER CELLS DID NOT SHOW ANY EVIDENCE OF PATHOLOGY. INHALATION STUDIES UTILIZING LABORATORY RABBITS AND GUINEA PIGS SHOWED NO EFFECTS ON LIVER WEIGHTS. INHALATION EXPOSURES TYPICAL OF INDUSTRIAL USAGE (5-10 PPM) SHOWED NO TOXIC EFFECTS IN RODENTS. GE SILICONES

MANUFACTURE

WATER REPRODUCTIVE STUDIES WERE CONDUCTED (WHOLE BODY INHALATION, 70 DAYS PRIOR TO MATING, THROUGH MATING, GESTATION AND LACTATION) WITH OCTAMETHYLCYCLOTETRASILOXANE (D4). RATS WERE EXPOSED TO 70 AND 700 PPM. IN THE 700 PPM GROUP, THERE WAS A STATISTICALLY SIGNIFICANT REDUCTION IN MEANSUPPLIED BY LITTER SIZE AND IN IMPLANTATION SITES. NO D4 RELATED CLINICAL SIGNS WERE GE SILICONE OBSERVED IN THE PUPS AND NO EXPOSURE RELATED PATHOLOGICAL FINDINGS WERE 260 HUDSON RIVER RI WATERFORD, NY

EMERGENCY PHONE (24 HRS): (518) 237-3330  
INTERIM RESULTS FROM A TWO GENERATION REPRODUCTIVE STUDY IN RATS EXPOSED TO 500 AND 700 PPM D4 (WHOLE BODY INHALATION, 70 DAYS PRIOR TO MATING, THROUGHREVISD: 0 MATING, GESTATION AND LACTATION) RESULTED IN A STATICALLY SIGNIFICANT DECREASE IN LIVE MEAN LITTER SIZE AS WELL AS EXTENDED PERIODS OF OFF-SPRINGREPARER: B. DELIVERY (DYSTOCIA). THESE RESULTS WERE NOT OBSERVED AT THE 70 AND 300 PPM DOSING LEVELS. CHEMICAL FA

PERMUTATIONEXCRETS FROM AN ONGOING 24-MONTH COMBINED CHRONIC/ONCOGENICITY STUDY IN RATS EXPOSED TO 10, 30, 150, OR 700 PPM D4 SHOWED TEST-ARTICLE RELATED EFFECTS IN THE KIDNEY (MALE AND FEMALE) AND UTERUS OF RATS EXPOSED FOR 12 TO 24 MONTHS. THESE EFFECTS INCLUDE INCREASED KIDNEY WEIGHT AND SEVERITY OF CHRONIC NEPHROPATHY, INCREASED UTERINE WEIGHT, INCREASED INCIDENCE OF ENDOMETRIAL CELL HYPERPLASIA, AND AN INCREASED INCIDENCE ORODUCT COMPOS ENDOMETRIAL ADENOMAS. ALL OF THESE EFFECTS WERE LIMITED TO THE 700 PPM CAS REG NO. EXPOSURE GROUP.

1. HAZARDOUS  
THE RELEVANCE OF THESE DATA TO HUMANS IS UNCLER. FURTHER STUDIES ARE ONGOING. 556-67-2 1-5 5 PPM NE GE REC NE OCTAMETHYLCYC GUIDE  
IN DEVELOPMENTAL TOXICITY STUDIES, RATS AND RABBITS WERE EXPOSED TO OCTAMETHYLCYCLOTETRASILOXANE AT CONCENTRATIONS UP TO 700 PPM AND 500 PPMILANOL/STPD SI RESPECTIVELY. NO TERATOGENIC EFFECTS (BIRTH DEFECTS) WERE OBSERVED IN EITHER4-67-6 STUDY.

TREATED FUMED SILICA  
THIS PRODUCT CONTAINS SMITHYLPOLYBILLOXANESWHICH CAN GENERATE FORMALDEHYDE AT APPROXIMATELY 300 DEGREES FAHRENHEIT (150 DEG. C) AND ABOVE, IN ATMOSPHERES WHICH CONTAIN OXYGEN. FORMALDEHYDE IS A SKIN AND RESPIRATORY SENSITIZER, EYMETHYLTRIA AND THROAT IRRITANT, ACUTE TOXICANT, AND POTENTIAL CANCER HAZARD. AN MSDS 4253-34-3 FOR FORMALINNONYHEZARDAVAILABLE FROM GE SILICONES.

DIMETHYL POLYSILOXANE SILANOL/ST  
70131-67-8 60-80 4. FIRST AID MEASURES NE NA

SEESECTION 15 FOR DESCRIPTION OF ANY WHMIS TRADE SECRET(S).  
DO NOT INDUCE VOMITING. SLOWLY DILUTE WITH 1-2 GLASSES OF WATER OR MILK AND SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

EMERGENCY OVERVIEW:  
TO CLIMATHESE SKIN, REMOVE COMPLETELY WITH A DRY CLOTH OR PAPER TOWEL, BEFORE IRRITATING TO S  
WASHINGWITH HERMURGENTFASWAWAUSED.  
GET MEDICAL ATTENTION IF IRRITATIONVEERBISTWER AND REPRODUCTIVE EFFECTS REPORTED I  
ODORLESS

ANIMIRUWONOLID  
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION POTENTIAL HEALTH  
USING A BARRIER DEVICE. IF BREATHING IS DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION. INGESTION:  
MAY CAUSE STOMACH DISCOMFORT.

WASERE HARMFUL IF SWALLOWED.  
IN CASEOFINCOMPETIEMIMEDIETEFY EXHGHUESES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

SKIN CONTACT:  
MOURED PRODUCTIONSOME KIDENIRRITATE LIPS, GUMS AND TONGUE.  
UNCURED PRODUCT CONTACT MAY IRRITATE THE SKIN.

5. FIRE FIGHTING MEASURES  
CAUSES MI:

REBESPOUNTY IN UNURED(STATE).  
METHOD: NA  
EYE CONTACT: UNCURED PRODUCT CONTACT IRRITATES EYES.  
IGNITION TEMP: UNK (C) UNK (F)  
MEDICAL CONDITIONS AGGRAVATED: NONE KNOWN.  
FLAMMABLE LIMITS IN AIR - LOWER (%): UNK  
FLAMMABLE LIMITS IN AIR - UPPER (%): UNKSUBCHRONIC (TARGET ORGAN) EFFECTS:  
REPRODUCTIVE DISORDERS.  
MEMSCAUSEZIVERMECHENTISAL IMPACT (Y/N): NO

SHRONITVEFFETUS\$CARTINDREHARGE:  
SENSITIVITY TO STATIC DISCHARGE THISORROPECTEDONE OF ITS INGREDIENTS PRESENT 0.1%  
A CARCINOGEN OR SUSPECTED CARCINOGEN  
EXTINGUISHING MEDIA: ALL STANDARD FIREFIGHTING MEDIA PRODUCTS/INGREDIENTS: THIS SP

SPECIAL FIREFIGHTING PROCEDURES:  
FIREFIGHTERS MUST WEAR NIOSH/MSHA APPROVEDPOSITIVE PRESSURESELF-CONTAINED BREATHING APPARATUS WITH FULL FACE MASK AND FULL PROTECTIVE CLOTHING. DERMAL - S  
EYES.  
INHALATION.

6. ACCIDENTAL RELEASE MEASURES  
OTHER:  
ACETON TOHE HKESESEB BERTGAKUNIRELEASED OR SPILLED: WIPE, SCRAPE OR SOAK

~~SERVICES, VAPOR DECONTAMINATION, WATER AND ADDRESSING HAZARD. WEAR PROPER~~  
~~INCREASE AREA VENTILATION. PROTECTIVE EQUIPMENT AS SPECIFIED IN~~

## 13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD:

## 7. HANDLING AND STORAGE

DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. PRECAUTIONS TO

AVOID CONTACT WITH SKIN AND EYES.

REMOVE CONTACT LENSES BEFORE USING SEALANT. DO NOT HANDLE LENSES UNTIL ALL SEALANT HAS BEEN CLEANED FROM TRANSDUCER INFORMATION AND CUTICLES. RESIDUAL SEALANT MAY

CAUSE SEVERE IRRITATION.

PRODUCT RELEASES ACETIC ACID DURING APPLICATION AND CURING. USE MECHANICAL VENTILATION TO KEEP CONCENTRATION BELOW TLV OF 10 PPM ACETIC ACID.

REPLACE (S) FROM CHILDREN. STORE AWAY FROM HEAT, SOURCES OF IGNITION, AND

UN/NA NUMBER: NONE

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

PLACARDS: NONE

ENGINEERING CONTROLS: SHOWERS AND EYEWASH STATIONS. SEE "VENTILATION" E IATA: NOT REGULATED BY IATA

RESPIRATORY PROTECTION:

IF EXPOSURE DURING STRESSFUL WORK IS EXPERIENCED, NIOSH/MSHA APPROVED RESPIRATOR RESPIRATORS MAY BE REQUIRED FOR NON-ROUTINE OR EMERGENCY SITUATIONS.

RESPIRATORY PROTECTION MUST BE PROVIDED IN ACCORDANCE WITH OSHA REGULATIONS (29 CFR 1910.134).

RID (OCTI): NONE

ADR (ECE): NONE PROTECTIVE GLOVES: CLOTH GLOVES.

RAR (IATA): NONE

EYE AND FACE PROTECTION: SAFETY GLASSES.

OTHER PROTECTIVE EQUIPMENT: WEAR PROTECTIVE CLOTHING.

SAFETY DATA SHEET 302: NONE FOUND

SAFETY DATA SHEET 302: NONE FOUND VENTILATION AND OTHER FORMS OF ENGINEERING CONTROLS AT ACUTE HEALTH HAZARD OR EMERGENCY SITUATIONS.

CHRONIC HEALTH HAZARD

## SARA (313) CHEMICALS: PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT INFORMATION: NONE

BOILING POINT: NA (C) NA (F)

VAPOR PRESSURE (MM HG): NA

D2A: VERY TOXIC MATERIALS

D2B: TOXIC MATERIALS VAPOR DENSITY (AIR=1): NA

WATER SOLUBILITY: (NONE) (F)

BOILING POINT: NA (C) NA (F)

SOLID/SLURRY: SOLID

3214.10 MASTIC BASED ON RUBBER

3206.49 SILICONE COLOR CONCENTRATION: ACETIC ACID

COLOR: ALUMINUM

EAS99

EAS99 ODOR THRESHOLD (PPM): UNK

HAZARDOUS MATERIALS: NA

HMAS: RATE (BUTYL ACETATE=1): &lt;1

FLAMMABILITY 0

REACTIVITY 0 SPECIFIC GRAVITY (WATER=1): 1.04

HEALTH 1

DENSITY (KG/M3): 1040

NFPA:

HEALTH/ACID/ALKALINITY (MEQ/G): NA

FLAMMABILITY = 0

REACTIVITY = 0 PH: NA

VAPOR PRESSURE: 6.49/20

SOLUBILITY IN WATER (20 C): INSOLUBLE

## 16. OTHER INFORMATION

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS PRODUCT SPECIFICATIONS. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE

RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE

RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THEY ARE APPROPRIATE. SOLUBILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

C = CEILING LIMIT

NEGL = NEGLIGIBLE HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

EST= ESTIMATED CARBON MONOXIDE.

NF = NONE FOUND CARBON DIOXIDE.

NA = NOT APPLICABLE CARBON DIOXIDE.

UNKN = UNKNOWN ACETIC ACID.

NE = NONE ESTABLISHED ALDEHYDE.

REC = RECOMMENDED

ND = NONE DETERMINED COMPATIBILITY (MATERIALS TO AVOID): NONE KNOWN.

V = RECOMM. BY VENDOR

BY-PRODUCT = REACTION BY-PRODUCTS, TSCA/END USER KNOWS. NOT REQUIRED UNDER

40

CFR PART 720.30 (H-2)

SKN = SKIN

TS = TRADE SECRET

R = RECOMMENDED PRODUCT INFORMATION:

MST = MIST

STEL = SHORT TERM EXPOSURE (MG/KG): UNKNOWN

NT = NOT TESTED

ACUTE DERMAL LD50 (MG/KG): UNKNOWN

ALL CHEMICAL SUBSTANCES IN THIS MATERIAL ARE INCLUDED ON OR EXEMPTED FROM LISTING ON THE TSCA INVENTORY. ACUTE INHALA

OTHER INFORMATION: GENERAL ELECTRIC CO.

AMES TEST: UNKNOWN

## 12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: NO DATA AT THIS TIME

☒ Close this window

MSDS

**Common Name:** SIMPLE GREEN ALL-PURPOSE CLEANER**Manufacturer:** SUNSHINE MAKERS**MSDS Revision Date:** 3/9/2012**Grainger Item Number(s):** 22C608, 22C609, 22C610, 22C611, 22C612, 22C613**Manufacturer Model Number(s):****MSDS Table of Contents**

Click the desired link below to jump directly to that section in the MSDS.

[SECTION 1: PRODUCT & COMPANY IDENTIFICATION](#)  
[SECTION 2: HAZARDS IDENTIFICATION](#)  
[SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS](#)  
[SECTION 4: FIRST AID MEASURES](#)  
[SECTION 5: FIRE FIGHTING MEASURES](#)  
[SECTION 6: ACCIDENTAL RELEASE MEASURES](#)  
[SECTION 7: HANDLING AND STORAGE](#)  
[SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION](#)  
[SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES](#)  
[SECTION 10: STABILITY AND REACTIVITY](#)  
[SECTION 11: TOXICOLOGICAL INFORMATION](#)  
[SECTION 12: ECOLOGICAL INFORMATION](#)  
[SECTION 13: DISPOSAL CONSIDERATIONS](#)  
[SECTION 14: TRANSPORT INFORMATION](#)  
[SECTION 15: REGULATORY INFORMATION](#)  
[SECTION 16: OTHER INFORMATION](#)

SAFETY DATA SHEET: SIMPLE GREEN(R\*) ALL-PURPOSE CLEANER

VERSION NO. 13000-12A

ISSUE DATE: MARCH 9, 2012

SUPERSEDES DATE: N/A

ANSI-Z400.1-2010

**SECTION 1: PRODUCT & COMPANY IDENTIFICATION**

PRODUCT NAME: SIMPLE GREEN(R\*) ALL-PURPOSE CLEANER

ADDITIONAL NAMES:

SIMPLE GREEN(R\*) CONCENTRATED CLEANER DEGREASER DEODORIZER

MANUFACTURER'S PART NUMBER: \*PLEASE REFER TO SECTION 16

COMPANY:

SUNSHINE MAKERS, INC.

15922 PACIFIC COAST HIGHWAY

HUNTINGTON BEACH, CA 92649  
USA

TELEPHONE:  
800-228-0709  
62-795-6000

MONDAY - FRIDAY, 8 AM - 5 PM PST

FAX: 562-592-3830

EMERGENCY PHONE:  
CHEM-TEL 24-HOUR EMERGENCY SERVICE: 800-255-3924

## SECTION 2: HAZARDS IDENTIFICATION



### EMERGENCY OVERVIEW:

THIS IS A GREEN COLORED LIQUID WITH A SASSAFRAS ADDED ODOR. NO EXPECTED HEALTH HAZARDS.

ROUTES OF EXPOSURES: EYE CONTACT, SKIN CONTACT, INHALATION

0  
0  
0  
0

### NFPA/HMIS RATING:

HEALTH, FIRE, REACTIVITY, AND SPECIAL = 0 = MINIMAL

### POTENTIAL HEALTH EFFECTS:

EYE CONTACT: NOT EXPECTED TO CAUSE EYE IRRITATION.

SKIN CONTACT: NOT EXPECTED TO CAUSE SKIN IRRITATION.

INGESTION: MAY CAUSE UPSET STOMACH. SEE SECTION 11.

INHALATION: NOT EXPECTED TO CAUSE RESPIRATORY IRRITATION.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

DERMALLY SENSITIVE USERS MAY EXPERIENCE DRY SKIN.

TARGET ORGANS: NONE.

ENVIRONMENTAL EFFECTS: NOT HARMFUL.

THIS MIXTURE IS NOT CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



INGREDIENT	CAS NUMBER	PERCENT BY WEIGHT
WATER	7732-18-5	>/= 85%
ETHOXYLATED ALCOHOL	68439-46-3	</= 5%

SODIUM CITRATE	68-04-2	</= 5%
TETRASODIUM N,N-BIS(CARBOXYMETHYL)-L-GLUTAMATE	51981-21-6	</= 1%
SODIUM CARBONATE	497-19-8	</= 1%
CITRIC ACID	77-92-9	</= 1%
FRAGRANCE	PROPRIETARY MIXTURE	</= 1%
COLORANT	PROPRIETARY MIXTURE	</= 1%

#### SECTION 4: FIRST AID MEASURES



top

IF INHALED: IF ADVERSE EFFECT OCCURS, MOVE TO FRESH AIR.

IF ON SKIN: IF ADVERSE EFFECT OCCURS, RINSE SKIN WITH WATER.

IF IN EYES: IF ADVERSE EFFECT OCCURS, FLUSH EYES WITH WATER.

IF INGESTED: DRINK PLENTY OF WATER TO DILUTE.

#### SECTION 5: FIRE FIGHTING MEASURES



top

FLAMMABILITY: NON-FLAMMABLE.

FLASH POINT:

NO FLASH POINT SEEN AT OR BELOW 212 DEG. F (100 DEG. C), ASTM D-93

SUITABLE EXTINGUISHING MEDIA:

USE DRY CHEMICAL, CO2, WATER SPRAY OR "ALCOHOL" FOAM.

EXTINGUISHING MEDIA TO AVOID: HIGH VOLUME JET WATER.

PRODUCTS OF COMBUSTION: IN EVENT OF FIRE CREATED CARBON OXIDES.

SPECIAL PROTECTIVE EQUIPMENT:

FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE-FIGHTING TURNOUT GEAR.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES



top

PERSONAL PRECAUTIONS: USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8.

ENVIRONMENTAL PRECAUTIONS:

PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS OR WATERWAYS.

METHOD FOR CONTAINMENT: DIKE OR SOAK UP WITH INERT ABSORBENT MATERIAL.

METHOD FOR CLEAN UP:

DILUTE WITH WATER AND RINSE INTO SANITARY SEWER SYSTEM OR DISPOSE INTO SUITABLE CONTAINER.



**SECTION 7: HANDLING AND STORAGE**

HANDLING: ENSURE ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN.

STORAGE: KEEP CONTAINER TIGHTLY CLOSED. KEEP IN COOL DRY AREA.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

EXPOSURE LIMIT VALUES:

NO COMPONENTS LISTED WITH TWA OR STEL VALUES UNDER OSHA OR ACGIH.

ENGINEERING CONTROLS: NOT APPLICABLE.

EXPOSURE CONTROLS:

EYE CONTACT: USE PROTECTIVE GLASSES IF SPLASHING OR SPRAY-BACK IS LIKELY.

RESPIRATORY: USE IN WELL VENTILATED AREAS.

SKIN CONTACT: DERMAL SENSITIVE INDIVIDUALS SHOULD USE PROTECTIVE GLOVES.

GENERAL HYGIENE CONSIDERATIONS:

WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE: GREEN LIQUID

PHYSICAL STATE: LIQUID

ODOR: ADDED SASSAFRAS (SWEET HERBAL) ODOR

ODOR THRESHOLD: NOT AVAILABLE

BOILING POINT ASTM D-1120: 101 DEG. C (213.8 DEG. F)

FLASH POINT ASTM D-93: NOT APPLICABLE

FREEZING POINT ASTM D-1177: 0 - 3.33 DEG. C (32 - 38 DEG. F)

FLAMMABILITY: NOT APPLICABLE

SPECIFIC GRAVITY ASTM D-891: 1.01 - 1.03

AUTOIGNITION TEMPERATURE: NOT APPLICABLE

EVAPORATION RATE ASTM D-1901: 1/2 BUTYL ACETATE @ 25 DEG. C

DECOMPOSITION TEMPERATURE: NOT APPLICABLE

VAPOR PRESSURE ASTM D-323: 0.60 PSI @77 DEG. F, 2.05 PSI @100 DEG. F

DENSITY ASTM D-4017: 8.552 LB/GAL

VAPOR DENSITY: NOT APPLICABLE

WATER SOLUBILITY: 100%

PH ASTM D-1293: 9.0 +/- 0.5

PARTIAL COEFFICIENT: NOT AVAILABLE

OCS:

SCAQMD 304-91 / EPA 24:

0 G/L

0 LB/GAL

0%

CARB METHOD 310\*\*:

4 G/L

0.03 LB/GAL

0.4%

SCAQMD METHOD 313: NOT TESTED

\*\*WATER & FRAGRANCE EXEMPTION IN CALCULATION

VOC COMPOSITE PARTIAL PRESSURE: NOT DETERMINED

NUTRIENT CONTENT: PHOSPHOROUS: 0.0%

## SECTION 10: STABILITY AND REACTIVITY



### STABILITY:

STABLE UNDER NORMAL CONDITIONS 70 DEG. F (21 DE. C) AND 14.7 PSIG (760 MHG).

REACTIVITY: NON-REACTIVE.

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBLE MATERIALS: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS: NORMAL PRODUCTS OF COMBUSTION - CO, CO2.

POSSIBILITY OF HAZARDOUS REACTIONS: NONE KNOWN.

## SECTION 11: TOXICOLOGICAL INFORMATION



### EFFECTS OF EXPOSURE:

NOT EXPECTED TO BE HAZARDOUS UNDER TYPICAL USE CONDITIONS.

### ACUTE TOXICITY:

ORAL LD50 (RAT): >5 G/KG BODY WEIGHT

DERMAL LD50 (RABBIT): >5 G/KG BODY WEIGHT

CALCULATED VIA OECD HARMONIZED INTEGRATED CLASSIFICATION SYSTEM FOR HUMAN HEALTH & ENVIRONMENTAL HAZARDS OF CHEMICAL SUBSTANCES & MIXTURES

### CARCINOGENS:

NO INGREDIENTS ARE LISTED BY OSHA, IARC, OR NTP AS KNOWN OR SUSPECTED CARCINOGENS.

### EYES:

MINIMAL IRRITANT PER OCULAR IRRITATION (R\*) ASSAY MODELING NO ANIMAL.

TESTING PERFORMED.

**SKIN:**

NON-IRRITANT PER DERMAL IRRITATION(R\*) ASSAY MODELING. NO ANIMAL TESTING PERFORMED.

**SECTION 12: ECOLOGICAL INFORMATION****AQUATIC TOXICITY:**

LOW, BASED ON OECD 201, 202, 203 + MICROTOX: EC50 & IC50  $\geq$  100 MG/L.

TERRESTRIAL TOXICITY: LOW, BASED ON TOXICOLOGY PROFILE.

**PERSISTENCE AND DEGRADABILITY:**

READILY BIODEGRADABLE PER OECD 301D, CLOSED BOTTLE TEST.

MOBILITY: NO DATA AVAILABLE.

BIOACCUMULATION: NOT APPLICABLE.

**SECTION 13: DISPOSAL CONSIDERATIONS****APPROPRIATE METHOD FOR DISPOSAL:**

UNUSED PRODUCT: \*DILUTE WITH WATER AND DISPOSE BY SANITARY SEWER.

**USED PRODUCT:**

\*USED PRODUCT MAY BE HAZARDOUS DEPENDING ON THE CLEANING APPLICATION AND RESULTING CONTAMINANTS.

**EMPTY CONTAINERS:**

\*TRIPLE-RINSE WITH WATER AND OFFER FOR RECYCLING IF AVAILABLE IN YOUR AREA.

\*DISPOSE OF USED OR UNUSED PRODUCT, AND EMPTY CONTAINERS IN ACCORDANCE WITH THE LOCAL, STATE, PROVINCIAL, AND FEDERAL REGULATIONS FOR YOUR LOCATION. NEVER DISPOSE OF USED DEGREASING RINSATES INTO LAKES, STREAMS, AND OPEN BODIES OF WATER OR STORM DRAINS.

**SECTION 14: TRANSPORT INFORMATION**

U.S. (DOT) / CANADIAN TDG: NOT REGULATED FOR SHIPPING.

IMO / IDMG: NOT CLASSIFIED AS HAZARDOUS

ICAO/ IATA: NOT CLASSIFIED AS HAZARDOUS

ADR/RID: NOT CLASSIFIED AS HAZARDOUS

U.N. NUMBER: NOT APPLICABLE

HAZARD CLASS: NON-HAZARDOUS

PROPER SHIPPING NAME: DETERGENT/CLEANING SOLUTION

MARINE POLLUTANT: NO

**SECTION 15: REGULATORY INFORMATION**

ALL COMPONENTS ARE LISTED ON: EINECS, TSCA, DSL, AICS AND NZIOC INVENTORY.

SARA TITLE III:

SECTIONS 311/313: NOT APPLICABLE.

SECTIONS 313: NOT APPLICABLE.

SECTIONS 302: NOT APPLICABLE.

STATE RIGHT TO KNOW LISTS NO INGREDIENTS LISTED.

CA PROP 65: NONE LISTED.

TEXAS ESL:

ETHOXYLATED ALCOHOL 68439-46-3:

60 (MICRO)G/M3 LONG TERM

600 (MICRO)G/M3 SHORT TERM

SODIUM CITRATE 68-04-2:

5 (MICRO)G/M3 LONG TERM

50 (MICRO)G/M3 SHORT TERM

SODIUM CARBONATE 497-19-8:

5 (MICRO)G/M3 LONG TERM

50 (MICRO)G/M3 SHORT TERM

CITRIC ACID 77-92-9:

10 (MICRO)G/M3 LONG TERM

100 (MICRO)G/M3 SHORT TERM

WHMIS CLASSIFICATION: NON HAZARDOUS, NOT CLASSIFIABLE.

NAME TOXIC SUBSTANCES LIST - SCHEDULE 1 - CEPA NPRI INVENTORY

NO NO

NO

THIS PRODUCT HAS BEEN CLASSIFIED ACCORDING TO THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY CANADA'S CONTROLLED PRODUCTS REGULATION.

**SECTION 16: OTHER INFORMATION**

PART NUMBER	SIZE
2700000113012	24 OZ. TRIGGER SPRAY 12/CASE
2700200113005	1-GALLON BOTTLE 6/CASE
2700000113225	2.5-GALLON BOTTLE 2/CASE
2700000113006	5-GALLON PAIL EACH
2700000113008	55-GALLON DRUM EACH
2700000113275	275-GALLON TOTE EACH

BATCH CODING:

CONTAINERS OF THIS FORMULA WILL BE BATCH CODED AS FOLLOWS:

EXAMPLE: AT3001001, GG3001001 WHERE...

AT & GG ARE CODES FOR PRODUCTION FACILITIES, "3" IS THE LAST DIGIT OF THE YEAR PRODUCT WAS PRODUCED, "001" IS THE JULIAN DATE PRODUCT AS PRODUCED, AND "001" IS THE BATCH NUMBER FOR THAT PRODUCT IN THAT YEAR.

PREPARED / REVISED BY: SUNSHINE MAKERS, INC., REGULATORY DEPARTMENT.

THIS SDS HAS BEEN REVISED IN THE FOLLOWING SECTIONS: ALL

DISCLAIMER:

THE INFORMATION PROVIDED WITH THIS MSDS IS FURNISHED IN GOOD FAITH AND WITHOUT WARRANTY OF ANY KIND. PERSONNEL HANDLING THIS MATERIAL MUST MAKE INDEPENDENT DETERMINATIONS OF THE SUITABILITY AND COMPLETENESS OF INFORMATION FROM ALL SOURCES TO ASSURE PROPER USE AND DISPOSAL OF THIS MATERIAL AND THE SAFETY AND HEALTH OF EMPLOYEES AND CUSTOMERS. SUNSHINE MAKERS, INC. ASSUMES NO ADDITIONAL LIABILITY OR RESPONSIBILITY RESULTING FROM THE USE OF, OR RELIANCE ON THIS INFORMATION.

# Material Safety Data Sheet

24 Hour Assistance:  
1-847-367-7700  
Rust-Oleum Corp.  
[www.rustoleum.com](http://www.rustoleum.com)

## Section 1 - Chemical Product / Company Information

Product Name: STRUST +SSPR 6PK GLOSS DARK HUNTER GREEN Revision Date: 10/12/2011  
Identification Number: 7733830  
Product Use/Class: Topcoat/Aerosol  
Supplier: Rust-Oleum Corporation Manufacturer: Rust-Oleum Corporation  
11 Hawthorn Parkway 11 Hawthorn Parkway  
Vernon Hills, IL 60061 Vernon Hills, IL 60061  
USA USA  
Preparer: Regulatory Department

## Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less		ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL CEILING
		Than					
Acetone	67-64-1	35.0		500 ppm	750 ppm	1000 ppm	N.E.
Liquefied Petroleum Gas	68476-86-8	30.0		N.E.	N.E.	N.E.	N.E.
Xylene	1330-20-7	10.0		100 ppm	150 ppm	100 ppm	N.E.
n-Butyl Acetate	123-86-4	5.0		150 ppm	200 ppm	150 ppm	N.E.
Ethylbenzene	100-41-4	5.0		100 ppm	125 ppm	100 ppm	N.E.
Propylene Glycol Monobutyl Ether	5131-66-8	5.0		N.E.	N.E.	N.E.	N.E.
Carbon Black	1333-86-4	1.0		3.5 mg/m3	N.E.	3.5 mg/m3	N.E.

## Section 3 - Hazards Identification

\*\*\* Emergency Overview \*\*\*: Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Contents Under Pressure. Vapors may cause flash fire or explosion. Harmful if swallowed. Extremely flammable liquid and vapor.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Avoid breathing vapors or mists. Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness,



fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage.

Contains carbon black. Chronic inflammation, lung fibrosis, and lung tumors have been observed in some rats experimentally exposed for long periods of time to excessive concentrations of carbon black and several insoluble fine dust particles. Tumors have not been observed in other animal species (i.e., mouse and hamster) under similar circumstances and study conditions. Epidemiological studies of North American workers show no evidence of clinically significant adverse health effects due to occupational exposure to carbon black.

Carbon black is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC and is proposed to be listed as A4- "not classified as a human carcinogen" by the American Conference of Governmental Industrial Hygienists. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of carbon black in the formula.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

#### **Section 4 - First Aid Measures**

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

#### **Section 5 - Fire Fighting Measures**

Flash Point: -156 F (Setaflash)

Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

Unusual Fire And Explosion Hazards: Perforation of the pressurized container may cause bursting of the can. Isolate from heat, electrical equipment, sparks and open flame. Keep containers tightly closed. Vapors can travel to a source of ignition and flash back. Vapors may form explosive mixtures with air. Closed containers may explode when exposed to extreme heat. FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Water spray may be ineffective.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

#### **Section 6 - Accidental Release Measures**

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

## Section 7 - Handling And Storage

**Handling:** Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

**Storage:** Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**Respiratory Protection:** A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Protection provided by air purifying respirators is limited. Use a positive pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or in any other circumstances where air purifying respirators may not provide adequate protection.

**Skin Protection:** Nitrile or Neoprene gloves may afford adequate skin protection. Use impervious gloves to prevent skin contact and absorption of this material through the skin.

**Eye Protection:** Use safety eyewear designed to protect against splash of liquids.

**Other protective equipment:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

**Hygienic Practices:** Wash thoroughly with soap and water before eating, drinking or smoking.

## Section 9 - Physical And Chemical Properties

Vapor Density:	Heavier than Air	Odor:	Solvent Like
Appearance:	Aerosolized Mist	Evaporation Rate:	Faster than Ether
Solubility in H <sub>2</sub> O:	Slight	Freeze Point:	ND
Specific Gravity:	0.783	pH:	N.A.
Physical State:	Liquid		

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

**Incompatibility:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. By open flame, carbon monoxide and carbon dioxide.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

## Section 11 - Toxicological Information

<b>Chemical Name</b>	<b>LD50</b>	<b>LC50</b>
Acetone	5800 mg/kg (Rat)	50100 mg/m3 (Rat, 8Hr)
Liquefied Petroleum Gas	N.E.	N.E.
Xylene	4300 mg/kg (Rat, Oral)	5000 ppm (Rat, Inhalation, 4Hr)
n-Butyl Acetate	13100 mg/kg (Rat, Oral)	2000 ppm (Rat, Inhalation, 4 Hr)
Ethylbenzene	3500 mg/kg (Rat, Oral)	N.E.
Propylene Glycol Monobutyl Ether	2200 mg/kg (Rat, Oral)	N.E.
Carbon Black	>8000 mg/kg (Rat, Oral)	N.E.

## Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

## Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

## Section 14 - Transportation Information

	<b>Domestic (USDOT)</b>	<b>International (IMDG)</b>	<b>Air (IATA)</b>
Proper Shipping Name:	Consumer Commodity	Aerosols	Aerosols
Hazard Class:	ORM-D	2.1	2.1
UN Number:	N.A.	UN1950	UN1950
Packing Group:	N.A.	N.A.	N.A.
Limited Quantity:	No	Yes	Yes

## Section 15 - Regulatory Information

### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

### SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

**Chemical Name**Xylene  
Ethylbenzene**CAS Number**1330-20-7  
100-41-4**Toxic Substances Control Act:**

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

**U.S. State Regulations: As follows -****New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

**Chemical Name**Modified Alkyd Resin  
Barium Sulfate**CAS Number**PROPRIETARY  
7727-43-7**Pennsylvania Right-to-Know:**

The following non-hazardous ingredients are present in the product at greater than 3%.

**Chemical Name**Modified Alkyd Resin  
Barium Sulfate**CAS Number**PROPRIETARY  
7727-43-7**International Regulations: As follows -****CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS:** AB5 D2A D2B

**Section 16 - Other Information****HMIS Ratings:**

Health: 2\*      Flammability: 4      Physical Hazard: 0      Personal Protection: X

**NFPA Ratings:**

Health: 2      Flammability: 4      Instability: 0

**VOLATILE ORGANIC COMPOUNDS, g/L:** 522

**REASON FOR REVISION:** Regulatory Update

**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained

herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

# Material Safety Data Sheet

24 Hour Assistance:  
1-847-367-7700  
Rust-Oleum Corp.  
www.rustoleum.com

## Section 1 - Chemical Product / Company Information

Product Name: STRUST +SSPR 6PK GLOSS ORANGE  
Revision Date: 09/28/2011  
Identification Number: 214084  
Product Use/Class: Topcoat?aerosol  
Supplier: Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, IL 60061  
USA  
Manufacturer: Rust-Oleum Corporation  
11 Hawthorn Parkway  
Vernon Hills, IL 60061  
USA  
Preparer: Regulatory Department

## Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than		ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Acetone	67-64-1	30.0		500 ppm	750 ppm	1000 ppm	N.E.
Liquefied Petroleum Gas	68476-86-8	25.0		N.E.	N.E.	N.E.	N.E.
Xylene	1330-20-7	10.0		100 ppm	150 ppm	100 ppm	N.E.
n-Butyl Acetate	123-86-4	10.0		150 ppm	200 ppm	150 ppm	N.E.
Ethylbenzene	100-41-4	5.0		100 ppm	125 ppm	100 ppm	N.E.
Titanium Dioxide	13463-67-7	5.0		10 mg/m3	N.E.	15 mg/m3 (Total Dust)	N.E.
Propylene Glycol Monobutyl Ether	5131-66-8	5.0		N.E.	N.E.	N.E.	N.E.

## Section 3 - Hazards Identification

\*\*\* Emergency Overview \*\*\*: Contents Under Pressure. Harmful if inhaled. May affect the brain or nervous system causing dizziness, headache or nausea. Vapors may cause flash fire or explosion. Harmful if swallowed. Extremely flammable liquid and vapor.

Effects Of Overexposure - Eye Contact: Causes eye irritation.

Effects Of Overexposure - Skin Contact: Prolonged or repeated contact may cause skin irritation. Substance may cause slight skin irritation.

Effects Of Overexposure - Inhalation: High vapor concentrations are irritating to the eyes, nose, throat and lungs. Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing vapors or mists.

Effects Of Overexposure - Ingestion: Aspiration hazard if swallowed; can enter lungs and cause damage. Substance may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by



IARC. Significant exposure is not anticipated during brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula.

May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

## **Section 4 - First Aid Measures**

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

First Aid - Skin Contact: Wash with soap and water. Get medical attention if irritation develops or persists.

First Aid - Inhalation: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention.

## **Section 5 - Fire Fighting Measures**

Flash Point: -156 F (Setaflash)

Extinguishing Media: Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

Unusual Fire And Explosion Hazards: Closed containers may explode when exposed to extreme heat. Perforation of the pressurized container may cause bursting of the can. Water spray may be ineffective. Vapors can travel to a source of ignition and flash back. Keep containers tightly closed. FLASH POINT IS LESS THAN 20 °. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! Vapors may form explosive mixtures with air. Isolate from heat, electrical equipment, sparks and open flame.

Special Firefighting Procedures: Evacuate area and fight fire from a safe distance.

## **Section 6 - Accidental Release Measures**

Steps To Be Taken If Material Is Released Or Spilled: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

## **Section 7 - Handling And Storage**

Handling: Wash thoroughly after handling. Wash hands before eating. Use only in a well-ventilated area. Avoid breathing vapor or mist. Follow all MSDS/label precautions even after container is emptied because it may retain product residues.

Storage: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Do not

store above 120 ° F. Store large quantities in buildings designed and protected for storage of NFPA Class I flammable liquids. Contents under pressure. Do not expose to heat or store above 120 ° F.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

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**Other protective equipment:** Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

**Hygienic Practices:** Wash thoroughly with soap and water before eating, drinking or smoking.

## Section 9 - Physical And Chemical Properties

Vapor Density:	Heavier than Air	Odor:	Solvent Like
Appearance:	Aerosolized Mist	Evaporation Rate:	Faster than Ether
Solubility in H <sub>2</sub> O:	Slight	Freeze Point:	ND
Specific Gravity:	0.788	pH:	NE
Physical State:	Liquid		

(See section 16 for abbreviation legend)

## Section 10 - Stability And Reactivity

**Conditions To Avoid:** Avoid temperatures above 120 ° F. Avoid all possible sources of ignition.

**Incompatibility:** Incompatible with strong oxidizing agents, strong acids and strong alkalies.

**Hazardous Decomposition:** When heated to decomposition, it emits acrid smoke and irritating fumes. By open flame, carbon monoxide and carbon dioxide.

**Hazardous Polymerization:** Will not occur under normal conditions.

**Stability:** This product is stable under normal storage conditions.

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Titanium Dioxide	>7500 mg/kg (Rat, Oral)	N.E.
Propylene Glycol Monobutyl Ether	2200 mg/kg (Rat, Oral)	N.E.

## Section 12 - Ecological Information

Ecological Information: Product is a mixture of listed components.

## Section 13 - Disposal Information

Disposal Information: Dispose of material in accordance to local, state and federal regulations and ordinances. Do not allow to enter storm drains or sewer systems.

## Section 14 - Transportation Information

	<u>Domestic (USDOT)</u>	<u>International (IMDG)</u>	<u>Air (IATA)</u>
Proper Shipping Name:	Consumer Commodity	Aerosols	Aerosols
Hazard Class:	ORM-D	2.1	2.1
UN Number:	N.A.	UN1950	UN1950
Packing Group:	N.A.	N.A.	N.A.
Limited Quantity:	No	Yes	Yes

## Section 15 - Regulatory Information

### CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD, PRESSURIZED GAS HAZARD

### SARA Section 313:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

<u>Chemical Name</u>	<u>CAS Number</u>
Xylene	1330-20-7
Ethylbenzene	100-41-4

Toxic Substances Control Act:

Listed below are the substances (if any) contained in this product that are subject to the reporting requirements of TSCA 12(B) if exported from the United States:

**U.S. State Regulations: As follows -****New Jersey Right-to-Know:**

The following materials are non-hazardous, but are among the top five components in this product.

**Chemical Name**  
Modified Alkyd Resin

**CAS Number**  
PROPRIETARY

**Pennsylvania Right-to-Know:**

The following non-hazardous ingredients are present in the product at greater than 3%.

**Chemical Name**  
Modified Alkyd Resin  
Barium Sulfate

**CAS Number**  
PROPRIETARY  
7727-43-7

**International Regulations: As follows -****CANADIAN WHMIS:**

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

**CANADIAN WHMIS CLASS:** AB5 D2A D2B

<b>Section 16 - Other Information</b>
---------------------------------------

**HMIS Ratings:**

Health: 2\*      Flammability: 4      Physical Hazard: 1      Personal Protection: X

**NFPA Ratings:**

Health: 2      Flammability: 4      Instability: 0

**VOLATILE ORGANIC COMPOUNDS, g/L:** 502

**REASON FOR REVISION:** Regulatory Update

**Legend:** N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this material safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable

international, federal, state, and local laws and regulations.

MATERIAL SAFETY DATA SHEET

HMIS(R\*):  
HEALTH 2  
FLAMMABILITY 4  
REACTIVITY 0  
PERSONAL PROTECTION B

IDENTITY: TOUGH GUY GRAFFITI & SPRAY PAINT REMOVER

PART NUMBER: 2DBX9

NOTE:

BLANK SPACES ARE NOT PERMITTED. IF ANY ITEM IS NOT APPLICABLE, OR NO INFORMATION IS AVAILABLE, THE SPACE MUST BE MARKED TO INDICATE THAT.

**SECTION 1: COMPANY IDENTIFICATION**

MANUFACTURED FOR: W.W. GRAINGER, INC.

ADDRESS (NUMBER, STREET, CITY, STATE, AND ZIP CODE):  
100 GRAINGER PARKWAY  
LAKE FOREST, IL 60045

EMERGENCY TELEPHONE NUMBER: 1-800-228-5635

TELEPHONE NUMBER FOR INFORMATION: 1-847-535-5400

SIGNATURE OF PREPARER (OPTIONAL):

**SECTION 2: INGREDIENTS/IDENTITY INFORMATION**

COMPONENTS CAS NO. OSHA ACGIH- OTHER LIMITS %  
(CHEMICAL IDENTITY, PEL TLV RECOMMENDED (OPT.)  
COMMON NAME(S))

ACETONE 67-64-1 1000 500 15 - 40%  
PPM PPM

TOLUENE 108-88-3 200 50 STEL: 150 PPM 10 - 30%  
PPM PPM

METHOXY 107-98-2 NONE 100 STEL: 150 PPM 7 - 13%  
ISOPROPANOL PPM

ISOBUTANE 75-28-5 800 800 7 - 13%  
PPM PPM

DIMETHYL ADIPATE 627-93-0 NONE NONE 7 - 13%

DIMETHYL GLUTARATE 1119-40-0 NONE NONE 7 - 13%



PPG-2 METHYL ETHER 34590-94-8 100 100 STEL: 150 PPM 3 - 7%  
(SKIN DESIGNATION) PPM PPM

D-LIMONENE 5989-27-5 NONE NONE 30 PPM (MANU.) 3 - 7%  
(R-p-MENTHA-1,  
8-DIENE)

PROPANE 74-98-6 1000 ASPHYXIAN 3 - 7%  
PPM

ANY SUBSTANCE LISTED AS HAZARDOUS BY THE STATES OF CALIFORNIA, FLORIDA, ILLINOIS, MICHIGAN, NEW JERSEY, OHIO, PENNSYLVANIA OR TEXAS IS DESCRIBED ABOVE IF KNOWN PRESENT IN REGULATED CONCENTRATIONS.

### **SECTION 3: HAZARDS IDENTIFICATION**

ROUTE(S) OF ENTRY:

EYES?: YES

INHALATION?: YES

SKIN?: YES

INGESTION?: YES

ACUTE HEALTH HAZARDS:

DANGER. EXTREMELY FLAMMABLE LIQUID AND VAPOR. MAY BE HARMFUL OR FATAL IF SWALLOWED. ASPIRATION HAZARD. CAUSES EYE IRRITATION. MAY BE HARMFUL IF INHALED. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. CONTENTS UNDER PRESSURE.

CHRONIC HEALTH HAZARDS:

REPEATED OR PROLONGED OCCUPATIONAL OVEREXPOSURE CAN CAUSE DERMATITIS AND PAINTER'S SYNDROME.

CARCINOGENICITY:

CHEMICAL: NONE

OSHA: NO

NTP: NO

IARC: NO

SIGNS AND SYMPTOMS OF EXPOSURE:

REDNESS, TEARING, STINGING OR BURNING IN EYES. REDNESS, DRYNESS OR IRRITATION OF SKIN. DROWSINESS, DIZZINESS, LOSS OF COORDINATION, NAUSEA, VOMITING OR FATIGUE. IRRITATION OF NOSE, THROAT OR DIGESTIVE TRACT.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

PRE-EXISTING SKIN, HEART, LIVER AND KIDNEY DISORDERS MAY BE ADVERSELY AFFECTED IF EXPOSURES OCCUR. FOLLOW GOOD CHEMICAL HYGIENE PRACTICES TO AVOID THIS HAZARD.

### **SECTION 4: EMERGENCY AND FIRST AID PROCEDURES**

EYES:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES LIFTING

EYELIDS TO INSURE COMPLETE REMOVAL. SEE A PHYSICIAN IMMEDIATELY.

**INGESTION:**

DO NOT INDUCE VOMITING UNLESS DIRECTED BY A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

**INHALATION:**

GET TO FRESH AIR. IF BREATHING HAS STOPPED, QUALIFIED PERSONNEL SHOULD ADMINISTER ARTIFICIAL RESPIRATION.

**SKIN:**

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. IF IRRITATION ARISES AND PERSISTS, CALL A PHYSICIAN. LAUNDRY CONTAMINATED CLOTHING AND SHOES BEFORE REUSE.

## **SECTION 5: FIRE FIGHTING MEASURES**

USA FLAME PROJECTION TEST (ASTM D-3065):  
> 18", FLASHBACK: EXTREMELY FLAMMABLE

FLAMMABLE LIMITS: NO DATA

LEL: NO DATA

UEL: NO DATA

**EXTINGUISHING MEDIA:**

USE CARBON DIOXIDE, DRY CHEMICAL, OR FOAM. TREAT AS AN OIL FIRE. BURNING LIQUID MAY FLOAT ON WATER.

**SPECIAL FIRE FIGHTING PROCEDURES:**

KEEP CONTAINERS COOL AND VAPORS DOWN WITH WATER SPRAY. PREVENT RUNOFF FROM ENTERING SEWERS AND PUBLIC WATERWAYS. WEAR SELF-CONTAINED BREATHING APPARATUS (SCBA) IN CHEMICAL FIRES.

**HAZARDOUS PRODUCTS OF COMBUSTION:**

OXIDES OF CARBON AND VARIOUS HYDROCARBONS.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

AEROSOL CONTAINER (PRESSURIZED) MAY BURST IF HEATED OVER 120 DEG. F. FLAMMABLE CONTENTS.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

**SMALL SPILL:**

WIPE UP SMALL RELEASES WITH A DRY ABSORBENT CLOTH OR OTHER ABSORBENT MATERIAL.

**LARGE SPILL:**

ABSORB LIQUID WITH VERMICULITE, ABSORBENT CLOTH, OR OTHER ABSORBENT MATERIAL. PREVENT MATERIAL FROM ENTERING SEWERS OR DRAINS. VENTILATE AREA AND BLOCK TRAFFIC. TRANSFER CONTAMINATED MATERIAL INTO SUITABLE CONTAINER

FOR PROPER DISPOSAL.

## **SECTION 7: HANDLING AND STORAGE**

### **HANDLING:**

DO NOT USE AROUND IGNITION SOURCES SUCH AS HEAT, SPARKS, OPEN FLAME, WELDING ARCS, ETC. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. DO NOT SWALLOW. WASH THOROUGHLY AFTER HANDLING. AVOID INHALING MIST OR VAPORS. DO NOT DELIBERATELY CONCENTRATE AND INHALE VAPORS. USE WITH ADEQUATE VENTILATION. DIRECT SPRAY AWAY FROM FACE.

### **STORAGE:**

FOLLOW LABEL DIRECTIONS CAREFULLY. KEEP OUT OF REACH OF CHILDREN. STORE IN A COOL (UNDER 120 DEG. F) DRY LOCATION AWAY FROM HEAT, SPARKS, OPEN FLAME, AND DIRECT SUNLIGHT. REPLACE CAP WHEN NOT IN USE. DO NOT PUNCTURE OR INCINERATE CONTAINER.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

EYE PROTECTION: YES, USE GOGGLES OR APPROVED SAFETY GLASSES (ANSI Z87).

SKIN PROTECTION: YES, IMPERVIOUS.

### **RESPIRATORY PROTECTIONS:**

NOT USUALLY NECESSARY. USE WITH ADEQUATE VENTILATION. USE NIOSH/MSHA APPROVED RESPIRATOR IF PELS OR TLVS ARE EXCEEDED.

### **ENGINEERING CONTROLS:**

VENTILATION NOT USUALLY NECESSARY BUT SHOULD BE PROVIDED IN THE EVENT OF OVEREXPOSURE.

## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### **APPEARANCE AND ODOR:**

CLEAR COLORLESS LIQUID/GEL WITH AN AROMATIC SOLVENT AND CITRUS ODOR IN AN AEROSOL CAN.

pH: N/A

SPECIFIC GRAVITY (70 DEG. F): 0.888

BOILING POINT: 205 DEG. F

MELTING POINT: NO DATA

EVAPORATION RATE (BUTYL ACETATE = 1) NO DATA

PRESSURE (PSIG. @ 70 DEG. F): 50 +/- 10

VAPOR DENSITY (AIR = 1): >1

SOLUBILITY IN WATER: INSOLUBLE

VOLATILE ORGANIC COMPOUNDS (VOCs):

405.76 GRAMS PER LITER OR 49.98% BY WEIGHT VOC'S

## **SECTION 10: STABILITY AND REACTIVITY**

HAZARDOUS POLYMERIZATION:

THIS PRODUCT WILL NOT UNDERGO HAZARDOUS POLYMERIZATION.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

OXIDES OF CARBON AND VARIOUS HYDROCARBONS.

CHEMICAL STABILITY: STABLE

INCOMPATIBILITY (MATERIALS TO AVOID): STRONG OXIDIZING AND REDUCING AGENTS.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

NO DATA

## **SECTION 12: ECOLOGICAL INFORMATION**

NO DATA

## **SECTION 13: DISPOSAL CONSIDERATION**

DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

RCRA WASTE INFORMATION:

IF THIS PRODUCT BECOMES A WASTE, IT WOULD BE A HAZARDOUS WASTE (D001) AS DEFINED BY RCRA (40 CFR 261). HOWEVER THE WASTE SHOULD BE PROPERLY CHARACTERIZED TO EVALUATE WHETHER ITS COMPOSITION HAS BEEN MODIFIED PRIOR TO DISPOSAL.

## **SECTION 14: TRANSPORT INFORMATION**

DOT INFORMATION - 49 CFR 172.101:

PROPER SHIPPING DESCRIPTION: CONSUMER COMMODITY

HAZARD CLASS: ORM-D  
IDENTIFICATION NUMBER: NONE  
PACKING GROUP: NONE

WATER TRANSPORTATION:  
PROPER SHIPPING DESCRIPTION: AEROSOLS  
HAZARD CLASS: 2  
IDENTIFICATION NUMBER: UN 1950  
PACKING GROUP: NONE

AIR TRANSPORTATION:  
PROPER SHIPPING DESCRIPTION: AEROSOLS, FLAMMABLE  
HAZARD CLASS: 2.1  
IDENTIFICATION NUMBER: UN 1950  
PACKING GROUP: NONE

MARINE POLLUTANTS: NONE

## **SECTION 15: REGULATORY INFORMATION**

US FEDERAL REGULATIONS:

TSCA (TOXIC SUBSTANCES CONTROL ACT) STATUS:  
ALL INGREDIENTS ARE ON THE TSCA INVENTORY OR ARE NOT REQUIRED TO BE LISTED  
ON THE TSCA INVENTORY.

CERCLA RQ - 40 CFR 302.4 (A):

TOLUENE (CAS: 108-88-3) 1000 LBS

ACETONE (CAS: 67-64-1) 5000 LBS

SARA 313 COMPONENTS - 40 CFR 372.65:

TOLUENE (CAS: 108-88-3) 17%

STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65:

WARNING:  
THIS PRODUCT CONTAINS A CHEMICAL (TOLUENE) KNOWN TO THE STATE OF CALIFORNIA  
TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

## **SECTION 16: ADDITIONAL INFORMATION**

DATE PREPARED: 08/30/07

WARNING!

THE USE OF THIS PRODUCT IS BEYOND THE CONTROL OF THE MANUFACTURER;  
THEREFORE, NO GUARANTEE, EXPRESSED OR IMPLIED, IS MADE AS TO THE EFFECTS OF

SUCH OR THE RESULTS TO BE OBTAINED IF NOT USED IN ACCORDANCE WITH DIRECTIONS OR ESTABLISHED SAFE PRACTICE. THE USER MUST ASSUME ALL RESPONSIBILITY, INCLUDING INJURY OR DAMAGE, RESULTING FROM ITS MISUSE AS SUCH, OR IN COMBINATION WITH OTHER MATERIALS. THE MANUFACTURER WARRANTS ONLY THAT THIS PRODUCT MEETS THE MANUFACTURER'S SPECIFICATIONS FOR SUCH PRODUCT. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AS TO DESCRIPTION , QUALITY, MERCHANTABILITY. FITNESS FOR ANY PARTICULAR PURPOSE, PRODUCTIVENESS, OR ANY OTHER MATTER, OF THIS PRODUCT. THE MANUFACTURER SHALL BE IN NO WAY RESPONSIBLE FOR THE IMPROPER USE OF THIS PRODUCT. THE SOLE AND EXCLUSIVE REMEDY AGAINST THE MANUFACTURER FOR BREACH OF WARRANTY SHALL BE REIMBURSEMENT OF THE PURCHASE PRICE OF THE PRODUCT IN THE EVENT THAT A DEFECTIVE CONDITION OF THE PRODUCT SHALL BE FOUND TO EXIST. NO OTHER REMEDY (INCLUDING BUT NOT LIMITED TO INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR INJURY TO PERSON OR PROPERTY OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE.